

AL.2.2005-157

c.2

v.3

**South Saskatchewan River Basin Riparian Health Overview: Part 2-
Oldman, Belly, St. Mary, Waterton, Crowsnest and Castle Rivers**

Appendices



Cows and Fish

Alberta Riparian Habitat Management Program Report No. 026



Digitized by the Internet Archive
in 2016

Description of Riparian Health Parameters

The small rivers and stream riparian health score is based on 17 basic parameters pertaining to riparian health. This appendix addresses the guidelines and stipulations followed when each parameter was answered during the assessment. Keep in mind that these parameters are meant to encompass the broad range of ecological diversity that stream, river, lake, and wetland systems have the potential to express. The interpretations are not completely specific to any one type of river system, yet still capture the essential factors of riparian health and function.

Many different factors must be considered when answering any one of these parameters. It is quite possible that every scenario that could be encountered when conducting assessments is not covered here. Personal judgment based on sound riparian knowledge and good visual estimations are critical tools necessary for answering these questions consistently.

This description of riparian health parameters is based on the Alberta Lotic Wetland Health Assessment for Streams and Small Rivers (Survey) User Manual as created by Bitterroot Restoration, Inc. (2002). Following that is Alberta Lotic Wetland Health Assessment for Large Rivers (Survey) User Manual

Riparian Health Parameters

Alberta Lotic Wetland Health Assessment for Streams and Small Rivers (Survey) User Manual

Some factors on the evaluation will not apply on all sites. Sites without potential for woody species are not rated on factors concerning trees and shrubs. Vegetative site potential can be determined by using a key to site type (e.g., Hansen and others 1995, Kovalchik 1987, or another appropriate publication). On severely disturbed sites, vegetation potential can be difficult to determine. On such sites, clues to potential may be sought on nearby sites with similar landscape position.

Most of the factors rated in this evaluation are based on ocular estimations. Such estimation may be difficult on large, brushy sites where visibility is limited, but extreme precision is not necessary. While the rating categories are broad, evaluators do need to calibrate their eye with practice. It is important to remember that a health rating is not an absolute value. The factor breakout groupings and point weighting in the evaluation are somewhat subjective and are not grounded in quantitative science so much as in the collective experience of an array of riparian scientists, range professionals, and land managers.

Each factor below will be rated according to conditions observed on the site. The evaluator will estimate the scoring category and enter that value on the score sheet.

1. Vegetative Cover of Floodplain and Streambanks. Vegetation cover helps to stabilize banks, control nutrient cycling, reduce water velocity, provide fish cover and food, trap sediments, reduce erosion, and reduce the rate of evaporation (Platts and others 1987). Vegetation cover is ocularly estimated using the canopy cover method (Daubenmire 1959).

Stream channels that go dry during the growing season can create problems for polygon delineation. Some stream channels remain unvegetated after the water is gone. If the total vegetative cover of the channel is no more than 15%, it is considered a non-vegetated stream channel and is *excluded* from the polygon. Exceptions to this minimum of 15% canopy cover include channels with the vegetation removed by human-causes (such as grazing, logging, and construction). These are considered exposed soil surface (bare ground). Those channels that do contain more than 15% vegetative cover are included as part of the riparian vegetation.

Scoring:

6 = More than 95% of the polygon area is covered by plant growth.

4 = 85% to 95% of the polygon area is covered by plant growth.

2 = 75% to 85% of the polygon area is covered by plant growth.

0 = Less than 75% of the polygon area is covered by plant growth.

2. Invasive Plant Species (weeds).

Invasive plants are alien species whose introduction does or is likely to cause economic or environmental harm. Whether the disturbance that allowed their establishment is natural or human-caused, weed presence indicates a degrading ecosystem. While some of these species may contribute to some riparian functions, their negative impacts reduce overall site health. This item assesses the degree and extent to which the site is infested by invasive plants. The severity of the problem is a function of the density/distribution (pattern of occurrence), as well as canopy cover (abundance) of the weeds. In determining the health score, all invasive species are considered collectively, not individually.

A weed list should be used that is standard for the locality and that indicates which species are being considered (i.e., *Invasive Weed and Disturbance-caused Undesirable Plant List* [Cows and Fish 2002]). Some common invasive species are listed on the form, and space is allowed for recording others. **Leave no listed species field blank, however;** enter "0" to indicate absence of a value. *In 2000, the evaluation of invasive plant species were based on canopy cover of the all invasive species collectively, therefore density distribution for invasive species were not determined. A description of how invasive plant species were evaluated in 2000 can be found below:*

Invasive Plant Species. Invasive plants are "alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health." They are often referred to as "noxious weeds". The presence of invasive species indicates a degrading system. While some of these species may contribute to some riparian functions, their negative impacts reduce overall site health. In contrast to other items, which look at vegetation canopy cover, this item considers the portion of the polygon **infested** by invasive species. The term **infestation** is used here to describe that area wherein the presence of invasive species is cause for managerial concern. It is a function of invasive species density and "patchiness" rather than abundance. All invasive species are considered collectively, not individually. The evaluator should use an invasive species list that is standard for their locality and should indicate which species were included.

Scoring:

- 3 = 5% or less of the polygon occupied by invasive species.
- 2 = 5% to 25% of the polygon occupied by invasive species.
- 1 = 25% to 45% of the polygon occupied by invasive species.
- 0 = More than 45% of the polygon occupied by invasive species.

2a. Total Canopy Cover of Invasive Plant Species. The observer must evaluate the total percentage of the polygon area that is covered by the combined canopy of all plants of all species of invasive plants. Determine which rating applies in the scoring scale below.

Scoring:

- 3 = No invasive plant species (weeds) on the site.
- 2 = Invasive plants present with total canopy cover less than 1 percent of the polygon area.
- 1 = Invasive plants present with total canopy cover between 1 and 15 percent of the polygon area.
- 0 = Invasive plants present with total canopy cover more than 15 percent of the polygon area.

2b. Density/Distribution of Invasive Plant Species. The observer must pick a category of pattern and extent of invasive plant distribution from the chart below that best fits what is observed on the polygon, while realizing that the real situation may be only roughly approximated at best by any of these diagrams. Choose the category that most closely matches what you see.

Scoring:

- 3 = No invasive plant species (weeds) on the site.
- 2 = Invasive plants present with density/distribution in categories 1, 2, or 3.
- 1 = Invasive plants present with density/distribution in categories 4, 5, 6, or 7.
- 0 = Invasive plants present with density/distribution in categories 8, or higher.

Class	Description of abundance in polygon	Distribution
1	Rare	
2	A few sporadically occurring individual plants	
3	A single patch	
4	Several sporadically occurring plants	
5	A few patches	
6	Several well spaced patches	
7	Continuous uniform occurrences of well spaced plants	
8	Continuous occurrence of plants with a few gaps in the distribution	
9	Continuous dense occurrence of plants	
10	A single patch plus a few sporadically occurring plants	
11	A single patch plus several sporadically occurring plants	
12	A few patches plus several sporadically occurring plants	

Figure G3. Density and distribution of invasive plants.

NOTE: Prior to the 2001 season, the health score for weed infestation was assessed from a single numerical value that does not represent weed canopy cover, but instead represents the fraction of the polygon area on which weeds had a well established population of individuals (i.e., the area infested).

3. Disturbance-increaser Undesirable Herbaceous Species. A large cover of disturbance-increaser undesirable herbaceous species, native or exotic, indicates displacement from the potential natural community (PNC) and a reduction in riparian health. These species generally are less productive, have shallow roots, and poorly perform most riparian functions. They usually result from some disturbance which removes more desirable species. Invasive species considered in the previous item are not reconsidered here. As in the previous item, the evaluator should state the list of species considered. A partial list of undesirable herbaceous species appropriate for use in Alberta follows. The evaluator should list additional species included.

<i>Antennaria</i> spp. (pussy-toes)	<i>Hordeum jubatum</i> (foxtail barley)	<i>Potentilla anserina</i> (silverweed)
<i>Brassicaceae</i> (mustards)	<i>Plantago</i> spp. (plantains)	<i>Taraxacum</i> spp. (dandelion)
<i>Bromus inermis</i> (smooth brome)	<i>Poa pratensis</i> (Kentucky bluegrass)	<i>Trifolium</i> spp. (clovers)
<i>Fragaria</i> spp. (strawberries)		

Scoring:

3 = Less than 5% of the site covered by disturbance-caused undesirable herbaceous species.

2 = 5% to 25% of the site covered by disturbance-caused undesirable herbaceous species.

1 = 25% to 45% of the site covered by disturbance-caused undesirable herbaceous species.

0 = More than 45% of the site covered by disturbance-caused undesirable herbaceous species.

4. Preferred Tree and Shrub Establishment and Regeneration. (Skip this item if the site lacks potential for trees or shrubs; for example, the site is a herbaceous wet meadow or cattail marsh.) Not all riparian areas can support trees and/or shrubs. However, on those sites where such species do belong, they play important roles. The root systems of woody species are excellent bank stabilizers, while their spreading canopies provide protection to soil, water, wildlife, and livestock. Young age classes of woody species are important indicators of the continued presence of woody communities not only at a given point in time but into the future. Woody species potential can be determined by using a key to site type (Hansen and others 1995, Kovalchik 1987, Padgett and others 1987). On severely disturbed sites, the evaluator should seek clues to potential by observing nearby sites with similar landscape position. (**Note:** Vegetation potential is commonly underestimated on sites with a long history of disturbance.)

One tree species (*Elaeagnus angustifolia* [Russian olive]) and four shrub genera (*Symphoricarpos* spp. [snowberry], *Rosa* spp. [rose], *Crataegus* spp. [hawthorn], and *Tamarix* spp. [salt cedar]) are excluded from the evaluation of establishment and regeneration. These are species that may reflect long-term disturbance on a site, that are generally less palatable to browsers, and that tend to increase under long-term moderate-to-heavy grazing pressure; **AND** for which there is rarely any problem in maintaining presence on site. *Elaeagnus angustifolia* (Russian olive) and *Tamarix* spp. [salt cedar] are considered especially aggressive, undesirable exotic plants.

The main reason for excluding these plants is they are far more abundant on many sites than are species of greater concern (i.e., *Salix* spp. [willows], *Cornus stolonifera* [red-osier dogwood], *Amelanchier alnifolia* [serviceberry], and many other taller native riparian species), and they may mask the ecological significance of a small amount of a species of greater concern. **FOR EXAMPLE:** A polygon may have *Symphoricarpos occidentalis* (common snowberry) with 30% canopy cover showing young plants for replacement of older ones, while also having a trace of *Salix exigua* (sandbar willow) present, but represented only by older mature individuals. We feel that the failure of the willow to regenerate (even though there is only a small amount) is very important in the health evaluation, but by including the snowberry and willow together on this polygon, the condition of the willow would be hidden (overwhelmed by the larger amount of snowberry).

For shrubs in general, seedlings and saplings can be distinguished from mature plants as follows. For those species having a mature height generally over 6.0 ft (1.8 m), seedlings and saplings are those individuals less than 6.0 ft (1.8 m) tall. For species normally not exceeding 6.0 ft (1.8 m), seedlings and saplings are those individuals less than 1.5 ft (0.45 m) tall or which lack reproductive structures and the relative stature to suggest maturity. (**Note:** Observers should take care not to confuse short stature resulting from heavy browsing with that due to youth.)

Scoring: (If the site has no potential for trees or shrubs [except for the species listed above to be excluded], replace both Actual Score and Possible Score with NA.)

6 = More than 15% of the total canopy cover of preferred trees/shrubs is seedlings and saplings.

4 = 5% to 15% of the total canopy cover of preferred trees/shrubs is seedlings and saplings.

2 = Less than 5% of the total canopy cover of preferred tree/shrubs is seedlings and saplings.

0 = Preferred tree/shrub seedlings or saplings absent.

5. Utilization of Preferred Trees and Shrubs. (Skip this item if the site lacks trees or shrubs; for example, the site is a herbaceous wet meadow or cattail marsh.) Many riparian woody species are browsed by livestock and/or wildlife. Heavy browsing can prevent establishment or regeneration of these important species. Excessive browsing can eliminate them from the community and result in their replacement by undesirable invaders.

One tree species (*Elaeagnus angustifolia* [Russian olive]) and four shrub genera (*Symphoricarpos* spp. [snowberry], *Rosa* spp. [rose], *Crataegus* spp. [hawthorn], and *Tamarix* spp. [salt cedar]) are excluded from the evaluation of utilization of woody species. These are plants that may reflect long-term disturbance on a site, that are generally less palatable to browsers, and that tend to increase under long-term moderate-to-heavy grazing pressure; **AND** for which there is rarely any problem in maintaining presence on site. *Elaeagnus angustifolia* (Russian olive) and *Tamarix* spp. [salt cedar] are considered especially aggressive, undesirable exotic plants.

The main reason for excluding these plants is they are far more abundant on many sites than are species of greater concern (i.e., *Salix* spp. [willows], *Cornus stolonifera* [red-osier dogwood], *Amelanchier alnifolia* [serviceberry], and many other taller native riparian species), and they may mask the ecological significance of a small amount of a heavily utilized species of greater concern. **FOR EXAMPLE:** A polygon may have *Symphoricarpos occidentalis* (common snowberry) with 30% canopy cover showing only light utilization, while also having a trace of *Salix exigua* (sandbar willow) present showing heavy

utilization. We feel that, although there is only a small amount of willow present, the fact that it is being heavily utilized is very important to the health evaluation. By including the snowberry and willow together on this polygon, the condition of the willow would be hidden (overwhelmed by the larger amount of snowberry).

When estimating degree of utilization, count browsed second year and older leaders on representative plants of woody species normally browsed by ungulates. Do not count current year's use since this may not accurately reflect actual use because significant browsing can occur late in the season. Determine percentage by comparing the number of leaders browsed with the total number of leaders available (those within animal reach) on a representative sample (at least three plants) of each tree and shrub species present. Do not include use of dead plants unless it is clear this condition was the result of over-grazing.

Scoring: (If the site has no potential for trees or shrubs [except for the species listed above to be excluded], replace both Actual Score and Possible Score with NA.)

3 = None (0% to 5% of available second year and older leaders of preferred species are browsed).

2 = Light (5% to 25% of available second year and older leaders of preferred species are browsed).

1 = Moderate (25% to 50% of available second year and older leaders of preferred species are browsed).

0 = Heavy (More than 50% of available second year and older leaders of preferred species are browsed).

6. Standing Decadent and Dead Woody Material. (Skip this item if the site lacks trees or shrubs; for example, the site is a herbaceous wet meadow or cattail marsh.) The amount of decadent and dead woody material on a site can be an indicator of the overall health of a riparian area. Large amounts of decadent and dead woody material may indicate a reduced flow of water through the stream (dewatering) due to either human or natural causes. Dewatering of a site, if severe enough, may change the site vegetation potential from riparian species to upland species. In addition, decadent and dead woody material may indicate severe stress from over browsing. Finally, large amounts of decadent and dead woody material may indicate climatic impacts, disease and insect damage. For instance, severe winters may cause extreme die back of trees and shrubs, and cyclic insect infestations may kill individuals in a stand. In all these cases, a high percentage of dead and decadent woody material reflects degraded vegetative health, which can lead to reduced streambank integrity, channel incisement, and excessive lateral cutting, besides reducing production and other wildlife values.

The most common usage of the term *decadent* may be for over mature trees past their prime and which may be dying, but we use the term in a broader sense. We count decadent plants, both trees and shrubs, as those with 30% or more dead wood in the upper canopy. In this item, scores are based on the percentage of total woody canopy cover which is decadent or dead, not on how much of the total polygon canopy cover consists of dead and decadent woody material. Only decadent and dead standing material is included, not that which is lying on the ground.

Scoring: (If site lacks potential for woody species, replace both Actual and Potential Scores with NA.)

3 = Less than 5% of the total canopy cover of woody species is decadent or dead.

2 = 5% to 25% of the total canopy cover of woody species is decadent or dead.

1 = 25% to 45% of the total canopy cover of woody species is decadent or dead.

0 = More than 45% of the total canopy cover of woody species is decadent or dead.

7. Streambank Root Mass Protection. Streamside vegetation stabilizes the soil to the extent that it provides deep, binding roots. All tree and shrub species provide such roots. Herbaceous annuals lack this quality. Perennial herbs provide it in varying degree.

Some rhizomatous species, such as sedges (*Carex* spp.), are excellent streambank stabilizers. Other rhizomatous species, such as Kentucky bluegrass (*Poa pratensis*), have shallow roots and are poor streambank stabilizers. The evaluator should seek to determine if the types of root systems present in the streambank are in fact contributing to the stability of the streambanks. For this item consider the streambank to extend from the toe of the bank to approximately 18 inches beyond the top of the bank. The bank top is that point where the upper bank levels off to the relatively flat surface of a floodplain or terrace. Remember to include both banks (e.g., both sides of the stream).

Scoring:

6 = More than 85% of the streambank has a deep, binding root mass.

4 = 65% to 85% of the streambank has a deep, binding root mass.

2 = 35% to 65% of the streambank has a deep, binding root mass.

0 = Less than 35% of the streambank has a deep, binding root mass.

8. Human-Caused Bare Ground. Bare ground is soil not covered by plants, litter or duff, downed wood, or rocks larger than 2.5 inches (6 cm). Bare ground caused by human activity indicates a deterioration of riparian health. Sediment deposits and other natural bare ground are excluded as normal or probably beyond immediate management control. Human land uses causing bare ground include livestock grazing, recreation, roads, and industrial activities. The evaluator should consider the causes of all bare ground observed and estimate the fraction that is human-caused.

Stream channels that go dry during the growing season can create problems for polygon delineation. Some stream channels remain unvegetated after the water is gone. If the total vegetative cover of the channel is no more than 15%, it is considered a non-vegetated stream channel and is *excluded* from the polygon.

Exceptions to this minimum of 15% canopy cover include channels with the vegetation removed by human-causes (such as grazing, logging, and construction). These are considered exposed soil surface (bare ground). Those channels that do contain more than 15% vegetative cover are included as part of the riparian vegetation.

Scoring:

6 = Less than 1% of the site is human-caused bare ground.

4 = 1% to 5% of the site is human-caused bare ground.

2 = 5% to 15% of the site is human-caused bare ground.

0 = More than 15% of the site is human-caused bare ground.

9. Streambank Structurally Altered by Human Activity. Streambank structural integrity is vital to good channel configuration and bank shape. Impaired structure can mobilize channel and bank materials, cause loss of fishery and wildlife habitat, lower the water table, etc. Bank alteration can result from such causes as livestock hoof shear, recreation, and resource extraction. Do not include pugging and hummocking as they are taken care of later. In rating this item, consider the bank area from the water's edge up to 18 inches (45 cm) beyond the top of the bank. The bank top is that point where the upper bank levels off to the relatively flat surface of a floodplain or terrace. Remember to include both banks (e.g., both sides of the stream).

Scoring:

6 = Less than 5% of the bank is structurally altered by human activity.

4 = 5% to 15% of the bank is structurally altered by human activity.

2 = 15% to 35% of the bank is structurally altered by human activity.

0 = More than 35% of the bank is structurally altered by human activity.

10. Pugging and/or Hummocking. *Pugging* is typically considered the tracks of large animals left in fine textured soil. It is usually caused by hooved animals, livestock or wildlife, but on some sites the tracks of humans and/or their machines are left in fine textured soils. Clayey or silt mud is commonly of a consistency to hold tracks. Upon drying, pugged areas will have a hard, irregular surface, difficult to walk across. Bare soil may or may not be present. *Hummocking* is a micro-topographic relief characterized by raised pedicels of vegetated soil as much as 2 ft higher than the surrounding ground which results from long term large animal trampling and tracking in soft soil. Vegetation on the pedicels usually differs from that on the surrounding lower area due to moisture difference between the two levels.

Scoring:

3 = Less than 5% of the polygon is affected by pugging and/or hummocking.

2 = 5% to 15% of the polygon is affected by pugging and/or hummocking.

1 = 15% to 25% of the polygon is affected by pugging and/or hummocking.

0 = More than 25% of the polygon is affected by pugging and/or hummocking.

11. Stream Channel Incisement (vertical stability). Incisement can lower the water table enough to change current vegetation and site potential. It can also increase stream energy, reduce water retention/storage, and increase erosion.

A stream is incised when downcutting has lowered the channel bed so that two-year flood events cannot overflow the banks. Four typical downcutting indicators are: a) headcuts; b) exposed cultural features (pipelines, bridge footings, culverts, etc.); c) lack of sediment and exposed bedrock; and d) a low, vertical scarp at the bank toe on the inside of a channel bend. Channel incisement can occur in any of several stages (Figure 4). A severe disturbance can initiate downcutting, transforming the system from a steady state of high water table, appropriate floodplain, and high productivity to one of degraded water table, narrow [or no] active floodplain, and low productivity. (These stages of incisement can be categorized in terms of Rosgen Level I channel types [Rosgen 1996].)

A top rating goes to those unincised channels from which the 1-2 year high flow can access its floodplain. These can be meandering meadow streams (Rosgen E-type) and wide valley bottom streams (Rosgen C-type) which access floodplains much wider than the stream channel, or they may be mountain and foothill streams in V-shaped valleys which have limited floodplains because of topography. These latter types are usually armoured (well-rocked) systems with highly stable beds and streambanks that are not susceptible to downcutting. The lowest rating goes to entrenched channels (Rosgen F- or G-type) where even medium high flows which occur at 5-10 year intervals cannot overtop the high banks. Intermediate stages can be improving or degrading and may reflect slightly incised channels not yet so downcut that intermediate floods cannot access the floodplain, or they may be old incisements that are healing and rebuilding floodplain at a new, lower elevation.

Scoring:

9= Channel vertically stable and not incised; 1-2 year high flows access a floodplain appropriate to the stream type.

Active downcutting is not evident. Any old incisement is characterized by a broad floodplain inside which perennial riparian plant communities are well established. This condition is illustrated in Figure 2 by the following three stages.

Stage A-1. A stable, unincised meandering meadow channel (Rosgen E-type). Flows greater than bankfull (1-2 year event) spread over a floodplain more than twice the bankfull channel width.

Stage A-2. A fairly stable, unincised wide valley bottom stream with broad curves and point bars (Rosgen C-type). Although these streams typically cut laterally on the outside of curves and deposit sediment on inside point bars, bankfull flows (1-2 year events) have access to a floodplain more than twice bankfull channel width.

Stage A-3. A stable, unincised mountain (Rosgen A-type) or foothill (Rosgen B-type) channel with limited sinuosity and slopes greater than 2%. Although bankfull flow stage is reached every 1-2 years, the adjacent floodplain is often narrower than twice the bankfull channel width. Consequently, overflow conditions are not so obvious as in Stages A-1 and A-2 systems.

6 = Either of two incisement phases: (a) an improving phase with a sinuous curve/point bar system (Rosgen C-type) or a narrow, meandering stream (E-type) establishing in an old incisement which now represents the new floodplain, although this may be much narrower than it will become; (b) an early degrading phase in which a narrow, meandering meadow stream (E-type) is degrading into a curve/point bar type (C-type) or a wide, shallow channel (Rosgen F-type). In either case, the 1-2 year high flow event can access only a narrow floodplain less than or only slightly wider than twice the bankfull channel width. Perennial riparian vegetation is well established along much of the reach. These conditions are represented in **Stage B** of Figure 2.

3 = Two phases of incisement fit this rating. (a) A deep incisement that is starting to heal. In this phase new floodplain development, though very limited, is key. This phase is characterized by a wide, shallow channel unable to access a floodplain (Rosgen F-type) evolving into a curve/point bar system (C-type) through sediment deposition and lateral cutting. Pioneer perennial plants are beginning to establish on the new depositional surfaces. (b) An intermediate phase with downcutting and headcuts probable. Flows less than a 5-10 year event can access a narrow floodplain less than twice bankfull channel width. These conditions are represented in **Stage C** of Figure 2.

0 = The channel is deeply incised to resemble a ditch or a gully. Downcutting is likely ongoing. Only extreme floods overtop the banks, and no floodplain development has begun. Both **Stages D-1** and **D-2** of Figure 2 fall into this rating.

Stage D-1. An incised stream with a wide, shallow (F-type) channel. Commonly found in fine substrates (sands, silts, and clays), channel banks are very erodable. Only limited vegetation, primarily pioneer species, is present along the side of the stream.

Stage D-2. A narrow, deep "gully" system (Rosgen G-type) downcut to the point that only extreme floods can overtop the banks. Distinguished from narrow mountain streams (A-type) by the presence of a flat floodplain through which the stream has downcut and by banks consisting of fine materials rather than larger rocks, cobbles, or boulders.

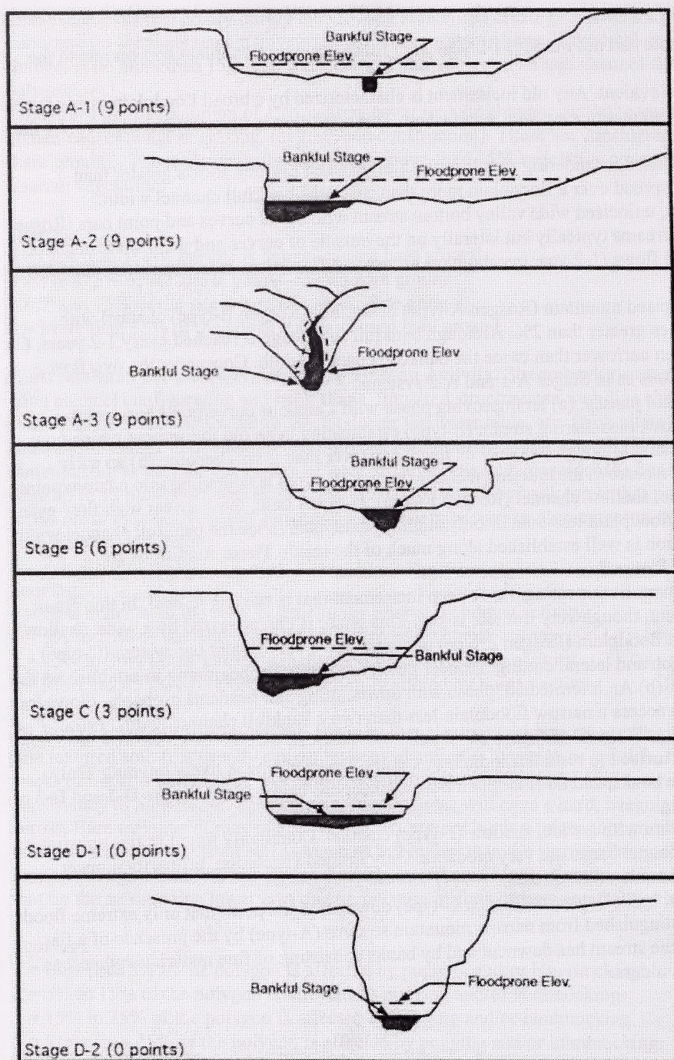


Figure G4. Guides for estimating stage of channel incisement.

Alberta Lotic Wetland Health Assessment for Large Rivers (Survey) User Manual

1. Cottonwood Regeneration from Seed. Because cottonwoods are so important to many of the functions of rivers of western North America, there is reason to look at the sexual reproduction (from seed, as opposed to asexual reproduction, or "root suckering") of these species as a fraction of the total canopy cover of all the cottonwood trees in the polygon. This reproduction success can be determined by estimating the established seedling and sapling cover expressed as percentage of the overall cover of the species on the site. (Note: For this item, include plants taller than 1 ft (29 cm) in height, but less than 5 inches (12.5 cm) in dbh [diameter at breast height: 4.5 ft (1.35 m)]). If the polygon is on the outside of a long meander curve where depositional material is not expected, replace both Actual Score and Possible Score with NA.

Scoring:

6 = More than 15% of the cottonwood cover is established seedlings and saplings.

4 = 5% to 15% of the cottonwood cover is established seedlings and saplings.

2 = Up to 5% of the cottonwood cover is established seedlings and saplings.

0 = None of the cottonwood cover is established seedlings and saplings.

2. Regeneration of other Tree Species. As succession progresses on a riparian site, the pioneer cottonwood and shrub communities are replaced by later seral communities (if river dynamics allow enough time).

If the site is not de-watered or otherwise disturbed, this progression is often to communities dominated by other native tree species. Depending upon dynamics of the system (how fast the channel migrates laterally), the potential may exist for equilibrium at different locations along the river between younger (those dominated by young cottonwoods and willows) communities and older communities (with aging cottonwoods and later seral species such as *Acer negundo* [box elder], *Fraxinus pennsylvanica* [green ash], *Populus tremuloides* [quaking aspen], *Pseudotsuga menziesii* [Douglas fir], and *Juniperus scopulorum* [Rocky Mountain juniper]). Note: Seedlings and saplings of these species include individuals which are less than 3 inches (7.5 cm) in dbh, with the exception of *Pseudotsuga menziesii* [Douglas fir], for which saplings go up to 5 inch (12.5 cm) dbh. If the polygon is a newly formed island where all plant communities are in an early successional stage and where no later successional species are expected to be present at this time, replace both Actual Score and Possible Score with NA.

The health of a population can be based on current regeneration success without having to determine the exact potential distribution between cottonwoods and the other tree species on a site. This regeneration success can be determined from the seedling and sapling canopy cover expressed as a percentage of the overall cover of the group of tree species on the site other than cottonwoods. Note: Do not count *Elaeagnus angustifolia* [Russian olive] in this determination because it is considered an undesirable exotic species.

Scoring:

3 = More than 5% of the other (non-cottonwood) tree cover is seedlings and saplings..Form current as of 6/13/03 10 Check www.cowsandfish.org for latest forms and user manuals

2 = 1% to 5% of the other (non-cottonwood) tree cover is seedlings and saplings.

1 = Less than 1% of the other (non-cottonwood) tree cover is seedlings and saplings.

0 = Seedlings and saplings of trees species other than cottonwoods are absent.

3. Preferred Shrub Species Establishment and Regeneration. Another indicator of a river system's ecological stability and, therefore, health is the presence of enough shrub regeneration to maintain the lifeform population along the river over the long term. Ecological stability is used in the broad sense that over the reach as a whole there is equilibrium of community composition and structure.

Four shrub genera (*Symphoricarpos* spp. [snowberry], *Rosa* spp. [rose], *Crataegus* spp. [hawthorn], and *Tamarix* spp. [salt cedar]) are excluded from the evaluation of establishment and regeneration. These are species that may reflect long-term disturbance on a site, that are generally less palatable to browsers, and that tend to increase under long-term moderate-to-heavy grazing pressure; AND for which there is rarely any problem in maintaining presence on site. *Tamarix* spp. [salt cedar] is considered an especially aggressive, undesirable exotic plant.

The main reason for excluding these plants is they are far more abundant on many sites than are species of greater concern (i.e., *Salix* spp. [willows], *Cornus stolonifera* [red-osier dogwood], *Amelanchier alnifolia* [serviceberry], and many other taller native riparian species), and they may mask the ecological significance of a small amount of a species of greater concern. **FOR EXAMPLE:** A polygon may have *Symphoricarpos occidentalis* (common snowberry) with 30% canopy cover showing young plants for replacement of older ones, while also having a trace of *Salix exigua* (sandbar willow) present, but represented only by older mature individuals. We feel that the failure of the willow to regenerate (even though there is only a small amount) is very important in the health evaluation, but by including the snowberry and willow together on this polygon, the condition of the willow would be hidden (overwhelmed by the larger amount of snowberry).

For shrubs in general, seedlings and saplings can be distinguished from mature plants as follows. For those species having a mature height generally over 6.0 ft (1.8 m), seedlings and saplings are those individuals less than 6.0 ft (1.8 m) tall. For species normally not exceeding 6.0 ft (1.8 m), seedlings and saplings are those individuals less than 1.5 ft (0.45 m) tall or which lack reproductive structures and the relative stature to suggest maturity. (*Note: Observers should take care not to confuse short stature resulting from heavy browsing with that due to youth.*)

Scoring: (*If the site has no potential for shrubs [except for the species listed above to be excluded], replace both Actual Score and Possible Score with NA. If the observer is not fairly certain potential exists for preferred shrubs, then enter NC and explain in the comment field below.*)

3 = More than 5% of the preferred shrub species cover is seedlings and saplings.

2 = 1% to 5% of the preferred shrub species cover is seedlings and saplings.

1 = Less than 1% of the preferred shrub species cover is seedlings and saplings.

0 = None of the preferred shrub species cover is seedlings and saplings.

4. Standing Decadent and Dead Woody Material. The amount of decadent and dead woody material on a site can be an indicator of the overall health of a riparian area. Large amounts of decadent and dead woody material may indicate a dewatering of the riparian site due to either human or natural causes. Dewatering of a site, if severe enough, may change the site vegetation potential from riparian species to upland species. In addition, decadent and dead woody material may indicate severe stress due to high levels of browsing. Finally, large amounts of decadent and dead woody material may indicate climatic impacts or disease and insect damage.

For instance, severe winters may cause extreme die back of trees and shrubs, and cyclic insect infestations may kill individuals in a stand. In all these cases, a high percentage of dead and decadent woody material reflects degraded vegetative health, which may lead to reduced streambank integrity, channel incisement, excessive lateral cutting, lowered production, and limited wildlife habitat.

Scores are based on the percentage of total woody canopy cover which is decadent or dead, not on the percentage of total polygon canopy cover represented by dead and decadent woody material. For example, woody vegetation may occupy 50% of the polygon. You would then only look at what percent of the woody vegetation is decadent or dead. Count only material which is standing, not that which is lying on the ground. Do not include the decadent and dead material of cottonwood trees which are decadent due to old age (rough and furrowed bark extends substantially up into the crowns of the trees).

Scoring:

3 = Less than 5% of the total canopy cover of woody species is decadent or dead.

2 = 5% to 25% of the total canopy cover of woody species is decadent or dead.

1 = 25% to 50% of the total canopy cover of woody species is decadent or dead.

0 = More than 50% of the total canopy cover of woody species is decadent or dead..Form current as of 6/13/03 11 Check www.cowsandfish.org for latest forms and user manuals

5. Preferred Tree and Shrub Species Utilisation. Many riparian woody species are browsed by livestock and/or wildlife. Heavy browsing of key palatable species (Cornus stolonifera [red-osier dogwood], Salix spp. [willows], Populus spp. [cottonwoods and aspen], Acer negundo [box elder], Fraxinus pennsylvanica [green ash], Prunus virginiana [chokecherry], and Amelanchier alnifolia [serviceberry] can shift the community to less palatable and less desirable species or entirely remove woody species from the site. Therefore, this item reflects both current site condition and successional direction of changes in the vegetation community.

One tree species (Elaeagnus angustifolia [Russian olive]) and four shrub genera (Symphoricarpos spp. [snowberry], Rosa spp. [rose], Crataegus spp. [hawthorn], and Tamarix spp. [salt cedar] are excluded from the evaluation of utilisation of woody species. These are plants that may reflect long term disturbance on a site, that are generally less palatable to browsers, and that tend to increase under long term moderate-to-heavy grazing pressure; AND for which there is rarely any problem in maintaining presence on site. Tamarix spp. [salt cedar] is an especially noxious and aggressive exotic invader.

The main reason for excluding these plants is they are far more abundant on many sites than are species of greater concern (i.e., Salix spp. [willows], Cornus stolonifera [red-osier dogwood], Amelanchier alnifolia [serviceberry], and many other taller native riparian species), and they may mask the ecological significance of a small amount of a heavily utilised species of greater concern. FOR EXAMPLE: A polygon may have Symphoricarpos occidentalis (common snowberry) with 30% canopy cover showing only light utilization, while also having a trace of Salix exigua (sandbar willow) present showing heavy utilisation. We feel that, although there is only a small amount of willow present, the fact that it is being heavily utilized is very important to the health evaluation. By including the snowberry and willow together on this polygon, the condition of the willow would be hidden (overwhelmed by the larger amount of snowberry).

When estimating degree of utilisation, count browsed second year and older leaders on representative plants of woody species normally browsed by ungulates. Do not count current year's use since this may not accurately reflect actual use because significant browsing can occur late in the season (after the evaluation). Only record a score for that portion of the woody material that is currently available for browse. If the woody material is too high for browsing by wildlife or livestock, then do not include it in the scoring. Determine percentage by comparing the number of leaders browsed with the total number of leaders available (those within animal reach) on a representative sample (at least three plants) of each tree and shrub species present. Do not include utilisation of dead plants unless it is clear this condition was the result of over grazing. Do not include stems cut by beaver activity.

Scoring: *(If the site has no potential for trees or shrubs [except for the species listed above to be excluded], replace both Actual Score and Possible Score with NA. If the observer is not fairly certain potential exists for preferred trees or shrubs, then enter NC and explain in the comment field below.)*

- 3 = None (0% to 5% of available second year and older leaders of preferred species are browsed).
 2 = Light (5% to 25% of available second year and older leaders of preferred species are browsed).
 1 = Moderate (25% to 50% of available second year and older leaders of preferred species are browsed).
 0 = Heavy (More than 50% of available second year and older leaders of preferred species are browsed).

6. Total Canopy Cover of Woody Species. Woody species play a critical role in riverbank integrity. Natural riverbanks are protected by large bank rock (e.g., boulders and cobbles) and by woody vegetation. On floodplains comprised primarily of fine textured materials—which are typical of many western rivers—riverbanks are protected only by the woody vegetation. In these cases, it is critically important to manage for healthy woody vegetation. Woody vegetation also traps sediment, helps to reduce velocity of flood waters, protects the soil from extreme temperatures, and provides wildlife habitat.

Note: Unlike other items dealing with woody plants, this item focuses on how much of the total polygon is covered by woody plants.

Scoring:

- 3 = More than 50% of the total area is occupied by woody species.
 2 = 25% to 50% of the total area is occupied by woody species.
 1 = 5% to 25% of the total area is occupied by woody species.
 0 = Less than 5% of the total area is occupied by woody species.

7a. Total Canopy Cover of Invasive Plant Species. The observer must evaluate the total percentage of the polygon area that is covered by the combined canopy of all plants of all species of invasive plants. Determine which rating applies in the scoring scale below.

Scoring:

- 3 = No invasive plant species (weeds) on the site.
 2 = Invasive plants present with total canopy cover less than 1 percent of the polygon area.
 1 = Invasive plants present with total canopy cover between 1 and 15 percent of the polygon area.
 0 = Invasive plants present with total canopy cover more than 15 percent of the polygon area.

7b. Density/Distribution of Invasive Plant Species. The observer must pick a category of pattern and extent of invasive plant distribution from the chart below that best fits what is observed on the polygon, while realizing that the real situation may be only roughly approximated at best by any of these diagrams. Choose the category that most closely matches what you see.

Scoring:

- 3 = No invasive plant species (weeds) on the site.
 2 = Invasive plants present with density/distribution in categories 1, 2, or 3.
 1 = Invasive plants present with density/distribution in categories 4, 5, 6, or 7.
 0 = Invasive plants present with density/distribution in categories 8, or higher.

See Figure G1. Density and distribution of invasive plants.

NOTE: Prior to the 2001 season, the health score for weed infestation was assessed from a single numerical value that does not represent weed canopy cover, but instead represents the fraction of the polygon area on which weeds had a well established population of individuals (i.e., the area infested).

8. Disturbance-increaser Undesirable Herbaceous Species. A large cover of disturbance-increaser undesirable herbaceous species, native or exotic, indicates displacement from the potential natural community (PNC) and a reduction in riparian health. These species generally are less productive, have shallow roots, and poorly perform most riparian functions.

They usually result from some disturbance, which removes more desirable species. Invasive species considered in the previous item are not reconsidered here. As in the previous item, the evaluator should state the list of species considered. A partial list of undesirable herbaceous species appropriate for use in Alberta follows. The evaluator should list additional species included.

Antennaria spp. (pussy-toes)	Hordeum jubatum (foxtail barley)	Potentilla anserina (silverweed)
Brassicaceae (mustards)	Plantago spp. (plantains)	Taraxacum spp. (dandelion)
Bromus inermis (smooth brome)	Poa pratensis (Kentucky bluegrass)	Trifolium spp. (clovers)
Fragaria spp. (strawberries)		

Scoring:

- 3 = Less than 5% of the reach covered by undesirable herbaceous species.
 2 = 5% to 25% of the reach covered by undesirable herbaceous species.
 1 = 25% to 50% of the reach covered by undesirable herbaceous species.
 0 = More than 50% of the reach covered by undesirable herbaceous species.

9. Presence of Native Graminoids. Certain riparian functions (i.e., primary forage production, wildlife habitat, and maintenance of natural biodiversity) are best served by native species, which evolved with the ecosystem.

Native graminoids are very often reduced or eliminated from a site as the result of long term disturbance. Therefore, one measure of the health of a riparian site is the amount of cover by these species (as a group) remaining. Specific species will depend on location, and observers should indicate which species were included.

Scoring:

3 = More than 50% of the reach is covered by native graminoid species.

2 = 25% to 50% of the reach is covered by native graminoid species.

1 = 5% to 25% of the reach is covered by native graminoid species.

0 = Less than 5% or less of the reach is covered by native graminoid species.

10. Exotic Undesirable Woody Species. The degree to which the vegetative community consists of exotic undesirable woody species in most cases reflects a degradation of many riparian functions. Although these species may contribute to some riparian functions to varying degrees, their presence reflects a general reduction in riparian functions overall since they displace more vulnerable and valuable species. This item evaluates what percent of the total woody species canopy cover is composed of exotic undesirable woody species. The two species listed below should always be included in this item. If additional species are included, they should be noted. List those undesirable woody species present along with their infestation area in the comment section. For example, Russian olive = 10%.

Elaeagnus angustifolia (Russian olive) *Tamarix chinensis* (Tamarisk)

Scoring:

3 = Less than 5% of total woody coverage in the reach consists of exotic undesirable woody species.

2 = 5% to 25% of total woody coverage in the reach consists of exotic undesirable woody species.

1 = 25% to 50% of total woody coverage in the reach consists of exotic undesirable woody species.

0 = More than 50% of total woody coverage in the reach consists of exotic undesirable woody species.

11. Riverbank Root Mass Protection. The vegetation along rivers performs the primary physical functions of stabilizing the soil with a deep, binding root mass and filtering sediments from overland flow. All tree and shrub species are considered to have deep, binding root masses. Although certain herbaceous species may provide protection on smaller streams, their value along rivers is limited; thus, this item considers only woody species root mass protection. For this item consider the riverbank to be the area extending from the toe of the bank to approximately 9 ft (3 m) beyond the top of the bank. The bank top is that point where the upper bank levels off to the relatively flat surface of a floodplain or terrace. (Note: Omit from consideration those banks that are stabilized by rip-rap).

Scoring:

6 = More than 85% of the riverbank has a deep, binding root mass.

4 = 65% to 85% of the riverbank has a deep, binding root mass.

2 = 35% to 65% of the riverbank has a deep, binding root mass.

0 = Less than 35% of the riverbank has a deep, binding root mass

12. Human-Caused Bare Ground. Many human activities disrupt the proper functioning of riparian ecosystems by exposing the soil surface to erosive forces, reducing water-holding capacity, allowing the invasion of weeds and other undesirable plants, and reducing production and wildlife habitat.

For this item, estimate the amount of area within the reach which is bare (i.e., not covered by plants, large rocks [> 2.5 in (6 cm)], woody debris, litter and duff, or moss and lichens) as the result of human activities which have disrupted the soil surface.

Examples of such activities are farming, cattle trails, ATV trails, other recreation uses, logging, mining, etc. Do not include such natural examples of bare ground as recent alluvial bars.

Stream channels that go dry during the growing season can create problems for polygon delineation. Some stream channels remain un-vegetated after the water is gone.

If the total vegetative cover of the channel is no more than 15%, it is considered a non-vegetated stream channel and is excluded from the polygon. Exceptions to this minimum of 15% canopy cover include channels with the vegetation removed by human-causes (such as grazing, logging, and construction). These are considered exposed soil surface (bare ground). Those channels that do contain more than 15% vegetative cover are included as part of the riparian vegetation.

Scoring:

6 = Less than 5% of the reach contains human-caused bare ground.

4 = 5% to 25% of the floodplain contains human-caused bare ground.

2 = 25% to 50% of the floodplain contains human-caused bare ground.

0 = More than 50% of the floodplain contains human-caused bare ground.

13. Dewatering of the River System. Proper functioning of any riparian ecosystem depends, by definition, upon the system supply of water.

The degree to which this “lifeblood” is artificially removed from the system is directly reflected in a reduction of riparian functions (i.e., wetland plant community maintenance, channel bank stability, wildlife habitat, overall system primary production, etc.) Dewatering of the system can be estimated by determining the fraction of the average river discharge, which is removed during the critical growing season each year. This determination can be based upon gauging station records as they relate to historic flow records established before construction of diversions. This question only deals with irrigation withdrawals from a river segment. The question of dams controlling the timing of peak runoff is taken care of in the next question.

Scoring:

9 = Less than 10% of average river discharge during the critical growing season is removed.

6 = 10% to 25% of average river discharge during the critical growing season is removed.

3 = 25% to 50% of average river discharge during the critical growing season is removed.

0 = More than 50% of average river discharge during the critical growing season is removed.

14. Control of Flood Peak and Timing by Upstream Dam(s). Natural riverine ecosystems adapt to, and depend upon, the volume and timing of annual peak flows which are determined by the watershed water yield and variability of the local climate. Humans have installed dams on many rivers for agricultural and industrial purposes and to mitigate the damages caused by the natural flooding to human development on the floodplain. The effects of these dams are debits against the functional health of the natural system. In this context, the health of the river system relates directly to the fraction of the watershed which remains undammed. Thus, this item includes all tributaries which flow into the river upstream of the reach being assessed.

Scoring:

9 = Less than 10% of the watershed upstream of the reach is controlled by dams.

6 = 10% to 25% of the watershed upstream of the reach is controlled by dams.

3 = 25% to 50% of the watershed upstream of the reach is controlled by dams.

0 = More than 50% of the watershed upstream of the reach is controlled by dams.

15. Human Alterations to the Riverbanks. Such human activities as residential development, road construction, farming, railroad construction, water diversion weirs, boat ramps, rip-rap, and levees along the immediate riverbanks negatively impact many functions of a riparian ecosystem. These alterations disrupt vegetative communities, alter bank integrity, constrict flows to the immediate channel, and otherwise change the natural system dynamics. Observers should consider both sides of all active channels when estimating the amount of total bank length altered by these activities.

Scoring:

9 = Less than 10% of the bank length has been restructured by human activity.

6 = 10% to 25% of the bank length has been restructured by human activity.

3 = 25% to 50% of the bank length has been restructured by human activity.

0 = More than 50% of the bank length has been restructured by human activity.

16. Floodplain Accessibility. Many of the most important functions of a riparian ecosystem depend upon the ability of the channel to access its floodplain during high flows. This access is restricted by levees and other human constructed embankments, such as roadbeds. Observers should determine what fraction of the historic 100 year floodplain remains unrestricted by such embankments. This can usually be determined by comparing the area within the embankments (as shown on the latest photos or Form current as of 6/13/03 15 Check www.cowsandfish.org for latest forms and user manuals maps available) to the area within the FEMA (US Federal emergency Management Agency) 100 year floodplain map of the reach.

Scoring:

6 = More than 85% of the floodplain is accessible to flood flows.

4 = 65% to 85% of the floodplain is accessible to flood flows.

2 = 35% to 65% of the floodplain is accessible to flood flows.

0 = More than 35% or less of the floodplain is accessible to flood flows.

Glossary

- Canopy cover** – the ground area covered by vegetative growth. Different plant species can provide varying degrees of cover depending on their overall size and abundance.
- Control of flood peak and timing by upstream dams** – the degree to which the watershed is controlled by dams.
- Dewatering of the river system** – the degree to which water is artificially removed from the system, both by diversions and uses.
- Disturbance-caused undesirable herbaceous species** – native or introduced non-woody plant species that are well adapted to disturbance or an environment of continual stress. This term *does not* include invasive plant species.
- Exotic undesirable woody species** – trees or shrubs that have negative impacts on riparian function by displacing vulnerable or more valuable species. Russian olive and tamarisk are always considered exotic undesirable woody species.
- Floodplain** – the land base alongside a stream that has the potential to be flooded during high water events.
- Floodplain Accessibility** – the ability of flood waters to access the historic 100 year floodplain, determined by examining if access is restricted by berms and other human constructed embankments such as roadbeds.
- Hoof shear** – pieces of bank broken off as a result of hooved animals walking along the stream edge.
- Human-caused bare ground** – areas devoid of vegetation as a result of human activity. This can include vehicle roads, recreational trails and livestock trampling.
- Invasive plant species** – these are typically weed species classified as *noxious* or *restricted* by your municipal district or county and have the potential to infest riparian areas.
- Lotic** – this term means *flowing water* (i.e. streams and rivers).
- Lentic** – this term means *standing or still water* (i.e. lakes, ponds and sloughs).
- Pointbar** – areas along the stream edge where sediment has been naturally deposited by moving water. These typically occur on the inside portion of a channel bend. Also known as a *sandbar*.
- Polygon** – term used to describe a riparian inventory site.
- Pugging and hummocking** – the depressions (pugging) and raised mounds of soil (hummocking) resulting from large animals walking through soft or moist soil.
- Reach** – section of a river with similar physical and vegetative features and similar management influences.
- Structural alteration** – physical changes to the shape or contour of the riverbank caused by human influences. Some examples are livestock crossings, culverts and ‘riprap’.
- Tree and shrub regeneration** – the presence of seedlings and saplings, or the ‘new growth’.
- Woody plant species** – simply refers to trees and shrubs. These plants serve different riparian functions than grasses and broad-leaf plants.

Location of Polygons on the Oldman River

Polygon	Township	Range	Meridian
OLD1	9	26	W4M
OLD2	10	25	W4M
OLD4	9	22	W4M
OLD5	9	23	W4M
OLD7	8	22	W4M
OLD8	8	22	W4M
OLD9	9	21	W4M
OLD10	8	1	W5M
OLD11	8	1	W5M
OLD12	10	1	W5M
OLD13	10	24	W4M
OLD14	10	25	W4M
OLD15	9	26	W4M
OLD16	8	21	W4M
OLD17	7	29	W4M
OLD18	7	29	W4M
OLD19	10	19	W4M
OLD20	10	20	W4M
OLD21	9	25	W4M
OLD22	11	14	W4M
CRW1	8	4	W5M
CRW2	7	2	W5M
CAT1	5	3	W5M
CAT2	6	2	W5M

Location of Polygons on the Belly River

Polygon	Township	Range	Meridian
BEL1	4	27	W4M
BEL2	6	25	W4M
BEL3	8	24	W4M
BEL4	8	24	W4M
BEL5	6	25	W4M
BEL6	4	27	W4M
BEL7	5	26	W4M
BEL8	5	26	W4M
BEL9	1	28	W4M
BEL10	2	28	W4M

Location of Polygons on the St.MaryRiver

Polygon	Township	Range	Meridian
STM1	5	23	W4M
STM2	7	22	W4M
STM3	3	24	W4M
STM4	1	25	W4M
STM5	5	23	W4M
STM6	7	22	W4M

Location of Polygons on the Waterton River

Polygon	Township	Range	Meridian
WAT2	6	26	W4M
WAT3	4	27	W4M
WAT4	3	28	W4M
WAT5	3	28	W4M
WAT6	5	27	W4M
WAT7	4	28	W4M

Oldman River Polygon Photos

OLD1



Upper end upstream view



Lower end upstream view



Upper end downstream view



Lower end downstream view

OLD2



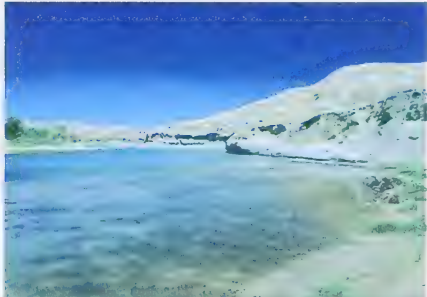
Upper end upstream view



Lower end upstream view



Upper end downstream view



Lower end downstream view

Oldman River Polygon Photos

OLD4



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD5



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD7



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD8



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

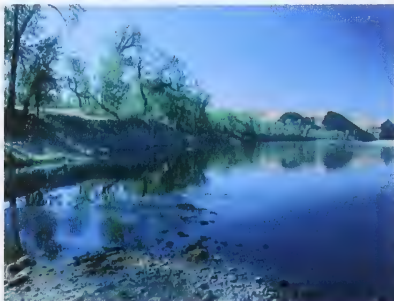
OLD9



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

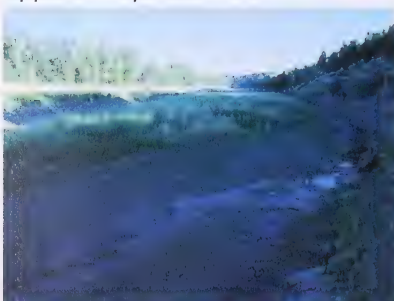
OLD10



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD11



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD12



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD13



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD14



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD15



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD16



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD17



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD18



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD19



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD20



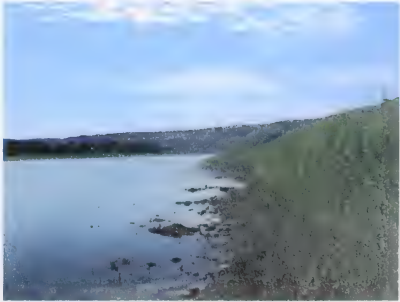
Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Oldman River Polygon Photos

OLD21



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

OLD22



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Crowsnest River Polygon Photos

CRW1



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

CRW2



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Castle River Polygon Photos

CAT1



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

CAT2



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Belly River Polygon Photos

BEL1



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

BEL2



Upper end upstream view



Upper end downstream view



Lower end upstream view



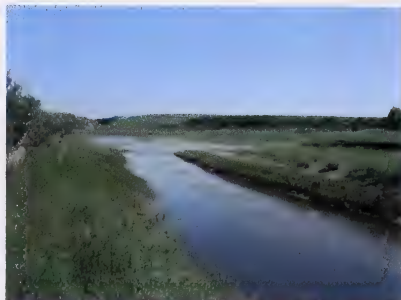
Lower end downstream view

Belly River Polygon Photos

BEL3



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

BEL4



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Belly River Polygon Photos

BEL5



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

BEL6



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Belly River Polygon Photos

BEL7



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

BEL8



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Belly River Polygon Photos

BEL9



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

BEL10



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

St. Mary River Polygon Photos

STM1



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

STM2



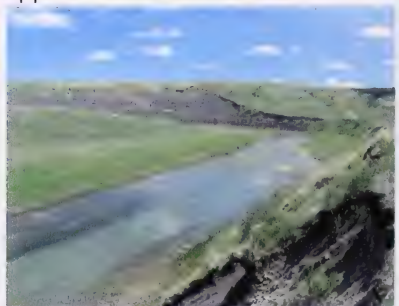
Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

St. Mary River Polygon Photos

STM3



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

STM4



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

St. Mary River Polygon Photos

STM5



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

STM6



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Waterton River Polygon Photos

WAT2



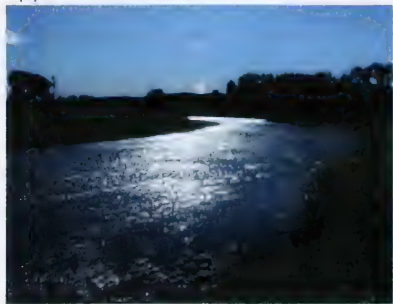
Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

WAT3



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Waterton River Polygon Photos

WAT4



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

WAT5



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Waterton River Polygon Photos

WAT6



Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

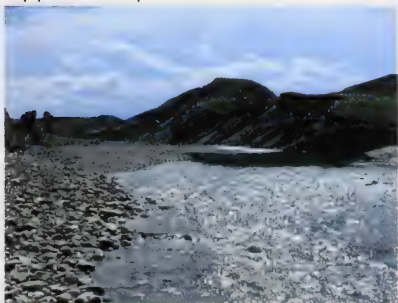
WAT7



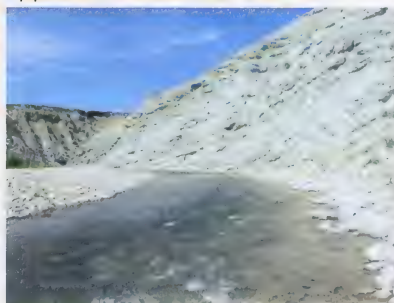
Upper end upstream view



Upper end downstream view



Lower end upstream view



Lower end downstream view

Number of Polygons= 24 River Health Evaluation Survey Forms ONLY

AENV	Cottonwood Regeneration from Seed				Preferred Shrub Species Establishment and Regeneration				Standing Decadent and Dead Woody Material				Preferred Tree and Shrub Species Utilisation				Total Canopy Cover of Woody Species				Invasive Herbaceous Species Canopy Cover				Invasive Herbaceous Species Density Distribution			
	1		2		3		4		5		6		7a		7b													
	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible												
OM-10	200110162	OLD10	6	6	1	3	3	3	3	3	2	3	2	3	0	3	0	3										
	200410058	OLD11	6	6	NA	NA	3	3	3	3	1	3	2	3	1	3	0	3										
	200410037	OLD12	6	6	NA	NA	1	3	3	3	0	3	1	3	2	3	0	3										
	Average Score:		6.0	6.0	1.0	3.0	2.3	3.0	3.0	3.0	1.0	3.0	1.7	3.0	1.0	3.0	0.0	3.0										
Average Percent:		100%		33%		78%		100%		33%		56%		33%		0%												
OM-09	200410040	CRW1	6	6	1	3	3	3	3	3	1	3	3	3	1	3	0	3										
	200410064	CRW2	4	6	0	3	3	3	2	3	1	3	2	3	1	3	0	3										
	Average Score:		5.0	6.0	0.5	3.0	3.0	3.0	2.5	3.0	1.0	3.0	2.5	3.0	1.0	3.0	0.0	3.0										
	Average Percent:		83%		17%		100%		83%		33%		83%		33%		0%											
OM-08	200410039	CAT1	6	6	3	3	3	3	3	3	1	3	3	3	2	3	0	3										
	200410060	CAT2	6	6	0	3	3	3	3	3	2	3	2	3	1	3	0	3										
	Average Score:		6.0	6.0	1.5	3.0	3.0	3.0	3.0	3.0	1.5	3.0	2.5	3.0	1.5	3.0	0.0	3.0										
	Average Percent:		100%		50%		100%		100%		50%		83%		50%		0%											
OM-07	200410056	OLD17	6	6	NA	NA	3	3	3	3	2	3	3	3	1	3	0	3										
	200410052	OLD18	6	6	NA	NA	3	3	2	3	2	3	3	3	1	3	0	3										
	Average Score:		6.0	6.0	0.0	0.0	3.0	3.0	2.5	3.0	2.0	3.0	3.0	3.0	1.0	3.0	0.0	3.0										
	Average Percent:		100%		0%		100%		83%		67%		100%		33%		0%											
OM-05	200110149	OLD1	4	6	NA	NA	3	3	2	3	2	3	3	3	1	3	0	3										
	200410055	OLD15	6	6	NA	NA	3	3	3	3	2	3	3	3	2	3	0	3										
	200410066	OLD21	6	6	NA	NA	3	3	3	3	2	3	3	3	1	3	0	3										
	Average Score:		5.3	6.0	0.0	0.0	3.0	3.0	2.7	3.0	2.0	3.0	3.0	3.0	1.3	3.0	0.0	3.0										
Average Percent:		89%		0%		100%		89%		67%		100%		44%		0%												

24 River Health Evaluation Survey Forms ONLY

Number of Polygons=

AENV	ID No.	Polygon	Cottonwood Regeneration from Seed		Regeneration of Other Tree Species		Preferred Shrub Species Establishment and Regeneration		Standing Decadent and Dead Woody Material		Preferred Tree and Shrub Species Utilisation		Total Canopy Cover of Woody Species		Invasive Herbaceous Species Canopy Cover		Invasive Herbaceous Species Density Distribution	
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
OM-04	200110104	OLD2	6	6 NA	NA	3	3	3	3	3	1	3	3	3	0	3	0	3
	200410057	OLD13	6	6 NA	NA	3	3	3	3	3	1	3	3	3	2	3	1	3
	200410042	OLD14	6	6.0	NA	3	3	2	3	3	2	3	3	3	2	3	0	3
	Average Score:		6.0	6.0	0.0	3.0	3.0	2.7	3.0	1.3	3.0	3.0	3.0	3.0	1.3	3.0	0.3	3.0
	Average Percent:		100%		0%	100%		89%		44%		100%			44%		11%	
OM-03	200110106	OLD5	4	6 NA	NA	3	3	2	3	1	3	3	3	3	0	3	0	3
	Average Score:		4.0	6.0	0.0	3.0	3.0	2.0	3.0	1.0	3.0	3.0	3.0	3.0	0.0	3.0	0.0	3.0
	Average Percent:		67%		0%	100%		67%		33%		100%			0%		0%	
OM-02	200110150	OLD4	6	6	3	3	3	3	3	2	3	3	3	3	0	3	0	3
	200110107	OLD7	6	6 NA	NA	3	3	3	3	2	3	3	3	3	0	3	0	3
	200110108	OLD8	6	6 NA	NA	1	3	2	3	1	3	3	3	3	0	3	0	3
	200110123	OLD9	2	6 NA	NA	2	3	3	3	2	3	3	3	3	0	3	0	3
	200410051	OLD16	4	6	0	3	3	3	3	2	3	3	3	3	1	3	0	3
	200410043	OLD20	6	6.0	NA	3	3	3	3	3	3	3	3	3	1	3	0	3
	Average Score:		5.0	6.0	1.5	3.0	2.5	2.8	3.0	2.0	3.0	3.0	3.0	3.0	0.3	3.0	0.0	3.0
	Average Percent:		83%		50%	83%		94%		67%		100%			11%		0%	
OM-01	200410053	OLD19	6	6 NA	NA	3	3	3	3	2	3	3	1	3	1	3	0	3
	200410090	OLD22	6	6 NA	NA	3	3	3	3	0	3	3	1	3	1	3	0	3
	Average Score:		6.0	6.0	0.0	3.0	3.0	3.0	3.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	0.0	3.0
	Average Percent:		100%		0%	100%		100%		33%		33%			33%		0%	
	Total Score		132	144	8	21	67	72	66	72	37	72	62	72	22	72	1	72
	Average Overall Score		5.5		1.1		2.8		2.8		1.5		2.6		0.9		0.0	
	Average Overall Percent		91.7%		38.1%		93.1%		91.7%		51.4%		86.1%		30.6%		1.4%	

Summary of health parameters

by category:

Healthy:

Healthy but with problems:

Unhealthy:

0

0

17

1

18

21

2

19

4

1

0

5

4

13

6

1

0

1

0

3

Number of Polygons=

AENV	ID No.	Polygon	Disturbance-Increaser Undesirable Herbaceous Species		Presence of Native Graminoids		Exotic Undesirable Woody Species		Riverbank Root Mass Protection		Human-Caused Bare Ground		Dewatering of the River System		Control of Flood Peak and Timing by Upstream Dam(s)		Human Alterations to the Riverbanks	
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
OM-10	200110162 OLD10		1	3	2	3	3	3	6	6	6	6	9	9	9	9	9	9
	200410058 OLD11		2	3	1	3	3	3	0	6	6	6	9	9	9	9	9	9
	200410037 OLD12		2	3	1	3	3	3	0	6	6	6	9	9	9	9	9	9
	Average Score:		1.7	3.0	1.3	3.0	3.0	3.0	2.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0
OM-09	200410040 CRW1		2	3	3	3	3	3	0	6	6	6	9	9	9	9	0	9
	200410064 CRW2		0	3	1	3	3	3	2	6	6	6	9	9	9	9	3	9
	Average Score:		1.0	3.0	2.0	3.0	3.0	3.0	1.0	6.0	6.0	6.0	9.0	9.0	9.0	1.5	9.0	9.0
	Average Percent:		33%		67%		100%		17%		100%		100%		100%	17%		
OM-08	200410039 CAT1		2	3	1	3	3	3	4	6	6	6	9	9	9	9	9	9
	200410060 CAT2		1	3	1	3	3	3	2	6	6	6	9	9	9	9	9	9
	Average Score:		1.5	3.0	1.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0	9.0
	Average Percent:		50%		33%		100%		50%		100%		100%		100%	100%		
OM-07	200410056 OLD17		0	3	1	3	3	3	4	6	6	6	9	9	0	9	9	9
	200410052 OLD18		0	3	1	3	3	3	4	6	6	6	9	9	0	9	9	9
	Average Score:		0.0	3.0	1.0	3.0	3.0	3.0	4.0	6.0	6.0	6.0	9.0	9.0	0.0	9.0	9.0	9.0
	Average Percent:		0%		33%		100%		67%		100%		100%		0%	100%		
OM-05	200110149 OLD1		0	3	2	3	3	3	0	6	4	6	0	9	0	9	0	9
	200410055 OLD15		0	3	2	3	3	3	4	6	6	6	0	9	0	9	9	9
	200410066 OLD21		0	3	2	3	3	3	6	6	6	6	0	9	0	9	6	9
	Average Score:		0.0	3.0	2.0	3.0	3.0	3.0	3.3	6.0	5.3	6.0	0.0	9.0	0.0	9.0	5.0	9.0
	Average Percent:		0%		67%		100%		56%		89%		0%		0%		56%	

Number of Polygons=

AENV	ID No.	Polygon	Disturbance-increaser Undesirable Herbaceous Species		Presence of Native Graminoids		Exotic Undesirable Woody Species		Riverbank Root Mass Protection		Human-Caused Bare Ground		Dewatering of the River System		Control of Flood Peak and Timing by Upstream Dam(s)		Human Alterations to the Riverbanks	
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
OM-04	200110104	OLD2	0	3	3	3	3	3	2	6	6	6	0	9	0	9	9	9
	200410057	OLD13	0	3	1	3	3	3	2	6	6	6	0	9	0	9	9	9
	200410042	OLD14	0	3	2	3	3	3	6	6	4	6	0	9	0	9	9	9
	Average Score:		0.0	3.0	2.0	3.0	3.0	3.0	3.3	6.0	5.3	6.0	0.0	9.0	0.0	9.0	9.0	9.0
		Average Percent:		0%	67%	100%	100%	56%	89%	89%	0%	0%	0%	100%	100%	100%	100%	100%
OM-03	200110106	OLD5	1	3	2	3	3	3	2	6	4	6	0	9	3	9	9	9
	Average Score:		1.0	3.0	2.0	3.0	3.0	3.0	2.0	6.0	4.0	6.0	0.0	9.0	3.0	9.0	9.0	9.0
			Average Percent:		33%	67%	100%	100%	33%	67%	67%	0%	0%	33%	33%	100%	100%	100%
			Average Percent:															
OM-02	200110150	OLD4	0	3	2	3	3	3	4	6	4	6	0	9	3	9	9	9
	200110107	OLD7	1	3	2	3	3	3	4	6	6	6	0	9	3	9	9	9
	200110108	OLD8	0	3	1	3	3	3	2	6	4	6	0	9	3	9	9	9
	200110123	OLD9	1	3	2	3	3	3	2	6	4	6	0	9	3	9	9	9
	200410051	OLD16	0	3	0	3	3	3	6	6	4	6	0	9	3	9	3	9
	200410043	OLD20	0	3	1	3	3	3	6	6	6	6	0	9	3	9	9	9
	Average Score:		0.3	3.0	1.3	3.0	3.0	3.0	4.0	6.0	4.7	6.0	0.0	9.0	3.0	9.0	8.0	9.0
			Average Percent:		11%	44%	100%	100%	67%	67%	78%	0%	0%	33%	33%	89%	89%	89%
OM-01	200410053	OLD19	1	3	1	3	3	3	0	6	6	6	0	9	3	9	9	9
	200410090	OLD22	1	3	1	3	3	3	0	6	4	6	0	9	3	9	9	9
	Average Score:		1.0	3.0	1.0	3.0	3.0	3.0	0.0	6.0	5.0	6.0	0.0	9.0	3.0	9.0	9.0	9.0
			Average Percent:		33%	33%	100%	100%	0%	0%	83%	0%	0%	33%	33%	100%	100%	100%
Total Score			15	72	36	72	72	72	68	144	128	144	81	216	90	216	183	216
Average Overall Score			0.6	1.5	1.5	3.0	2.8	5.3	3.4	3.4	5.3	3.4	3.4	3.4	3.8	7.6	7.6	7.6
Average Overall Percent			20.8%	50.0%	50.0%	100.0%	47.2%	88.9%	37.5%	41.7%	84.7%	37.5%	41.7%	84.7%	41.7%	84.7%	84.7%	84.7%

Summary of health parameters
by category:
Healthy:
Healthy but with problems:
Unhealthy:

0	2	5	13	9	7	19
4	9	6	8	0	0	1
20	13	13	0	15	17	4

Number of Polygons=

AENV	ID No.	Polygon	Floodplain Accessibility		Vegetation Total		Soil/Hydrology Percent		Soil/Hydrology Total		Percent		Overall Total		Overall %		Overall Health Category
			16														
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible			
OM-10	200110162 OLD10		6	6	23	36	64%	45	45	100%	68	81	84%	84%	Proper Functioning Condition (Healthy)		
	200410058 OLD11		6	6	22	33	67%	39	45	87%	61	78	76%	76%	Functional At Risk (Healthy, but with Problems)		
	200410037 OLD12		6	6	19	33	58%	39	45	87%	58	78	74%	74%	Functional At Risk (Healthy, but with Problems)		
	Average Score:		6.0	6.0	21.3	34.0	63%	41.0	45.0	91%	62.3	79.0	79%	79%			
Average Percent:		100%		63%		91%		79%									
OM-09	200410040 CRW1		4	6	26	36	72%	28	45	62%	54	81	67%	67%	Functional At Risk (Healthy, but with Problems)		
	200410064 CRW2		6	6	17	36	47%	35	45	78%	52	81	64%	64%	Functional At Risk (Healthy, but with Problems)		
	Average Score:		5.0	6.0	21.5	36.0	60%	31.5	45.0	70%	53.0	81.0	65%	65%			
	Average Percent:		83%		60%		70%										
OM-08	200410039 CAT1		6	6	27	36	75%	43	45	96%	70	81	86%	86%	Proper Functioning Condition (Healthy)		
	200410060 CAT2		6	6	22	36	61%	41	45	91%	63	81	78%	78%	Functional At Risk (Healthy, but with Problems)		
	Average Score:		6.0	6.0	24.5	36.0	68%	42.0	45.0	93%	66.5	81.0	82%	82%			
	Average Percent:		100%		68%		93%				82%						
OM-07	200410056 OLD17		6	6	22	33	67%	34	45	76%	56	78	72%	72%	Functional At Risk (Healthy, but with Problems)		
	200410052 OLD18		6	6	21	33	64%	34	45	76%	55	78	71%	71%	Functional At Risk (Healthy, but with Problems)		
	Average Score:		6.0	6.0	21.5	33.0	65%	34.0	45.0	76%	55.5	78.0					
	Average Percent:		100%		65%		76%				71%						
OM-05	200110149 OLD1		6	6	20	33	61%	10	45	22%	30	78	38%	38%	Nonfunctional (Unhealthy)		
	200410055 OLD15		6	6	24	33	73%	25	45	56%	49	78	63%	63%	Functional At Risk (Healthy, but with Problems)		
	200410066 OLD21		6	6	23	33	70%	24	45	53%	47	78	60%	60%	Functional At Risk (Healthy, but with Problems)		
	Average Score:		6.0	6.0	22.3	33.0	71%	19.7	45.0	54%	42.0	78.0	54%	54%			
Average Percent:		100%		68%		44%											

Number of Polygons=

AENV	ID No.	Polygon	Floodplain Accessibility		Vegetation Total		Percent	Soil/Hydrology Total		Percent	Overall Total		Overall %	Overall Health Category
			16		Percent			Percent			Overall %			
			Actual	Possible	Actual	Possible		Actual	Possible		Actual	Possible		
OM-04	200110104	OLD2	4	6	22	33	67%	21	45	47%	43	78	55%	Nonfunctional (Unhealthy)
	200410057	OLD13	6	6	23	33	70%	23	45	51%	46	78	59%	Nonfunctional (Unhealthy)
	200410042	OLD14	6	6	23	33	70%	25	45	56%	48	78	62%	Functional At Risk (Healthy, but with Problems)
	Average Score:		5.3	6.0	22.7	33.0	70%	23.0	45.0	53%	45.7	78.0	59%	
Average Percent:		89%		69%			51%				59%			
OM-03	200110106	OLD5	4	6	19	33	58%	22	45	49%	41	78	53%	Nonfunctional (Unhealthy)
	Average Score:		4.0	6.0	19.0	33.0	58%	22.0	45.0	49%	41.0	78.0	53%	
	Average Percent:		67%		58%		49%				53%			
	200110150	OLD4	4	6	25	36	69%	24	45	53%	49	81	60%	Functional At Risk (Healthy, but with Problems)
OM-02	200110107	OLD7	4	6	23	33	70%	26	45	58%	49	78	63%	Functional At Risk (Healthy, but with Problems)
	200110108	OLD8	4	6	17	33	52%	22	45	49%	39	78	50%	Nonfunctional (Unhealthy)
	200110123	OLD9	4	6	18	33	55%	22	45	49%	40	78	51%	Nonfunctional (Unhealthy)
	200410051	OLD16	6	6	19	36	53%	22	45	49%	41	81	51%	Nonfunctional (Unhealthy)
OM-01	200410043	OLD20	6	6	23	33	70%	30	45	67%	53	78	68%	Functional At Risk (Healthy, but with Problems)
	Average Score:		4.7	6.0	20.8	34.0	61%	24.3	45.0	54%	45.2	79.0	57%	
	Average Percent:		78%		61%		54%				57%			
	200410053	OLD19	6	6	21	33	64%	24	45	53%	45	78	58%	Nonfunctional (Unhealthy)
OM-01	200410090	OLD22	6	6	19	33	58%	22	45	49%	41	78	53%	Nonfunctional (Unhealthy)
	Average Score:		6.0	6.0	20.0	33.0	61%	23.0	45.0	51%	43.0	78.0	55%	
	Average Percent:		100%		61%		51%				55%			
	Total Score		130	144	518	813	64%	680	1080	63%	1198	1893	63%	Functional At Risk (Healthy, but with Problems)
Average Overall Score		5.4		21.6			28.3			49.9				
Average Overall Percent		90.3%		63.7%			63.0%			63.3%				

Summary of health parameters

by category:

Healthy:

Healthy but with problems:

Unhealthy:

16

6

0

Number of Sites per Health Category:

Overall%	Count	Health Category
8.3%	2	healthy (proper functioning condition)
54.2%	13	healthy but with problems (functional at risk)
37.5%	9	unhealthy (nonfunctional)

100.0%

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Trees			Shrubs			Grams		
					Canopy Cover (% as a decimal)	Area covered (acres)	polysize x %cctrees	Canopy Cover (% as a decimal)	Area covered (acres)	polysize x %ccshrubs	Canopy Cover (% as a decimal)	Area covered (acres)	Area covered (hect)
OM-10	200410037	OLD12	7	2.83	0.03	0.2	0.1	0.2	1.4	0.6	0.1	0.7	0.3
	200410058	OLD11	53.29	21.57	0.3	16.0	6.5	0.1	5.3	2.2	0.4	21.3	8.6
	200110162	OLD10	3.74	1.51	0.4	1.5	0.6	0.3	1.1	0.5	0.2	0.7	0.3
	Reach Total:			25.9		17.7	7.2		7.9	3.2		22.8	9.2
	Reach Average:			21.3		5.9	2.4		2.6	1.1		7.6	3.1
OM-09	200410064	CRW2	21.95	8.88	0.005	0.1	0.0	0.3	6.6	2.7	0.9	19.8	8.0
	200410040	CRW1	73.96	29.93	0.1	7.4	3.0	0.5	37.0	15.0	0.975	72.1	29.2
	Reach Total:			38.8		7.5	3.0		43.6	17.6		91.9	37.2
	Reach Average:			19.4		3.8	1.5		21.8	8.8		45.9	18.6
	200410039	CAT1	32.76	13.26	0.4	13.1	5.3	0.3	9.8	4.0	0.2	6.6	2.7
OM-08	200410060	CAT2	7.63	3.09	0.3	2.3	0.9	0.3	2.3	0.9	0.5	3.8	1.5
	Reach Total:			16.4		15.4	6.2		12.1	4.9		10.4	4.2
	Reach Average:			8.2		7.7	3.1		6.1	2.5		5.2	2.1
	200410052	OLD18	186.91	75.64	0.8	149.5	60.5	0.5	93.5	37.8	0.6	112.1	45.4
	200410056	OLD17	62.36	25.24	0.7	43.7	17.7	0.4	24.9	10.1	0.6	37.4	15.1
OM-07	Reach Total:			100.9		193.2	78.2		118.4	47.9		149.6	60.5
	Reach Average:			124.6		96.6	39.1		59.2	24.0		74.8	30.3

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Trees			Shrubs			Grams		
					Canopy Cover (% as a decimal)	polysize x %ccitrees (acres)	polysize x %ccitrees (hect)	Canopy Cover (% as a decimal)	polysize x %ccshrubs (acres)	polysize x %ccshrubs (hect)	Canopy Cover (% as a decimal)	Area covered (acres)	Area covered (hect)
OM-05	200410055 OLD15		11.21	4.54	0.6	6.7	2.7	0.8	9.0	3.6	0.7	7.8	3.2
	200110149 OLD1		28.16	11.4	0.5	14.1	5.7	0.7	19.7	8.0	0.8	22.5	9.1
	200410066 OLD21		238.61	96.56	0.7	167.0	67.6	0.6	143.2	57.9	0.8	190.9	77.2
		Reach Total:	278.0	112.5		187.8	76.0		171.8	69.5		221.3	89.5
		Reach Average:	92.7	37.5		62.6	25.3		57.3	23.2		73.8	29.8
OM-04	200110104 OLD2		35.79	14.48	0.4	14.3	5.8	0.6	21.5	8.7	0.7	25.1	10.1
	200410042 OLD14		219.51	88.83	0.6	131.7	53.3	0.8	175.6	71.1	0.7	153.7	62.2
	200410057 OLD13		1.53	0.62	0.005	0.0	0.0	0.5	0.8	0.3	0.7	1.1	0.4
		Reach Total:	256.8	103.9		146.0	59.1		197.8	80.1		179.8	72.8
		Reach Average:	85.6	34.6		48.7	19.7		65.9	26.7		59.9	24.3
OM-03	200110106 OLD5		197.84	80.06	0.5	98.9	40.0	0.8	158.3	64.0	0.8	158.3	64.0
		Reach Total:	197.8	80.1		98.9	40.0		158.3	64.0		158.3	64.0
OM-02	200410051 OLD16		8.27	3.35	0.5	4.1	1.7	0.6	5.0	2.0	0.6	5.0	2.0
	200410043 OLD20		20.04	8.11	0.005	0.1	0.0	0.5	10.0	4.1	0.5	10.0	4.1
	200110107 OLD7		9.84	3.98	0.8	7.9	3.2	0.7	6.9	2.8	0.975	9.6	3.9
	200110123 OLD9		12.23	4.95	0.8	9.8	4.0	0.6	7.3	3.0	0.7	8.6	3.5
	200110108 OLD8		21.18	8.57	0.7	14.8	6.0	0.2	4.2	1.7	0.7	14.8	6.0
	200110150 OLD4		20.36	8.24	0.8	16.3	6.6	0.7	14.3	5.8	0.9	18.3	7.4
		Reach Total:	91.9	37.2		53.0	21.5		47.7	19.3		66.3	26.8
		Reach Average:	15.3	6.2		8.8	3.6		7.9	3.2		11.0	4.5

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Trees			Shrubs		Grams				
					Canopy Cover	polysize x %cctrees	polysize x %ccshrubs	Canopy Cover	polysize x %ccshrubs	Canopy Cover	polysize x %ccgram			
OM-01	200410053 OLD19 200410090 OLD22	Reach Total: Reach Average:	1.27	0.51	0.1	0.1	0.1	0.2	0.3	0.1	0.4	0.5	0.2	
			13.84	5.6	0.005	0.1	0.0	0.2	2.8	1.1	1.1	1.7	4.2	1.7
			15.1	6.1		0.2	0.1		3.0	1.2	1.2	4.7	1.9	1.9
			7.6	3.1		0.1	0.0		1.5	0.6	0.6	2.3	0.9	0.9
			1289.28	521.75		719.76	291.28		760.62	307.81		904.82	366.17	
			53.72	21.74		29.99	12.14		31.69	12.83		37.70	15.26	
						55.8%	55.8%		59.0%	59.0%		70.2%	70.2%	
						Overall tot tree acres/overall tot poly acres			Overall tot shrub acres/overall tot poly acres			Overall tot gram acres/overall tot poly acres		

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Forbs			Total Woodyies			Total all plant lifeforms		
					Canopy Cover	polysize x %ccforb	Canopy Cover	Area covered (acres)	Area covered (hect)	polysize x %ccctotwood	Canopy Cover	Area covered (acres)	Area covered (hect)
OM-10	200410037	OLD12	7	2.83	0.3	2.1	0.8	0.2	1.4	0.6	0.6	4.2	1.7
	200410058	OLD11	53.29	21.57	0.3	16.0	6.5	0.4	21.3	8.6	0.7	37.3	15.1
	200110162	OLD10	3.74	1.51	0.5	1.9	0.8	0.5	1.9	0.8	0.8	3.0	1.2
	Reach Total:		64.0	25.9		20.0	8.1		24.6	9.9		44.5	18.0
	Reach Average:		21.3	8.6		6.7	2.7		8.2	3.3		14.8	6.0
OM-09	200410064	CRW2	21.95	8.88	0.3	6.6	2.7	0.3	6.6	2.7	0.975	21.4	8.7
	200410040	CRW1	73.96	29.93	0.2	14.8	6.0	0.6	44.4	18.0	0.975	72.1	29.2
	Reach Total:		95.9	38.8		21.4	8.7		51.0	20.6		93.5	37.8
	Reach Average:		48.0	19.4		10.7	4.3		25.5	10.3		46.8	18.9
	200410039	CAT1	32.76	13.26	0.2	6.6	2.7	0.6	19.7	8.0	0.8	26.2	10.6
OM-08	200410060	CAT2	7.63	3.09	0.1	0.8	0.3	0.4	3.1	1.2	0.7	5.3	2.2
	Reach Total:		40.4	16.4		7.3	3.0		22.7	9.2		31.5	12.8
	Reach Average:		20.2	8.2		3.7	1.5		11.4	4.6		15.8	6.4
	200410052	OLD18	186.91	75.64	0.2	37.4	15.1	0.8	149.5	60.5	0.9	168.2	68.1
	200410056	OLD17	62.36	25.24	0.2	12.5	5.0	0.7	43.7	17.7	0.9	56.1	22.7
OM-07	Reach Total:		249.3	100.9		49.9	20.2		193.2	78.2		224.3	90.8
	Reach Average:		124.6	50.4		24.9	10.1		96.6	39.1		112.2	45.4

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Forbs			Total Woodlies			Total all plant lifeforms		
					Canopy Cover	polysize x %ccforb		Canopy Cover	polysize x %ccctotwood		Canopy Cover	polysize x %ccclifeform	
						Area covered (acres)	Area covered (hect)		Area covered (acres)	Area covered (hect)		Area covered (acres)	Area covered (hect)
OM-05					(% as a decimal)			(% as a decimal)			(% as a decimal)		
	200410055 OLD15		11.21	4.54	0.2	2.2	0.9	0.8	9.0	3.6	0.975	10.9	4.4
	200110149 OLD1		28.16	11.4	0.3	8.4	3.4	0.8	22.5	9.1	0.9	25.3	10.3
	200410066 OLD21		238.61	96.56	0.3	71.6	29.0	0.7	167.0	67.6	0.9	214.7	86.9
		Reach Total:	278.0	112.5		82.3	33.3		198.5	80.3		251.0	101.6
OM-04													
	200110104 OLD2		35.79	14.48	0.4	14.3	5.8	0.6	21.5	8.7	0.8	28.6	11.6
	200410042 OLD14		219.51	88.83	0.3	65.9	26.6	0.8	175.6	71.1	0.9	197.6	79.9
	200410057 OLD13		1.53	0.62	0.2	0.3	0.1	0.5	0.8	0.3	0.975	1.5	0.6
		Reach Total:	256.8	103.9		80.5	32.6		197.8	80.1		227.7	92.1
OM-03													
	200110106 OLD5		197.84	80.06	0.4	79.1	32.0	0.8	158.3	64.0	0.9	178.1	72.1
		Reach Total:	197.8	80.1		79.1	32.0		158.3	64.0		178.1	72.1
	200410051 OLD16		8.27	3.35	0.3	2.5	1.0	0.8	6.6	2.7	0.9	7.4	3.0
	200410043 OLD20		20.04	8.11	0.2	4.0	1.6	0.5	10.0	4.1	0.8	16.0	6.5
OM-02	200110107 OLD7		9.84	3.98	0.8	7.9	3.2	0.8	7.9	3.2	0.975	9.6	3.9
	200110123 OLD9		12.23	4.95	0.3	3.7	1.5	0.8	9.8	4.0	0.9	11.0	4.5
	200110108 OLD8		21.18	8.57	0.7	14.8	6.0	0.7	14.8	6.0	0.8	16.9	6.9
	200110150 OLD4		20.36	8.24	0.6	12.2	4.9	0.9	18.3	7.4	0.9	18.3	7.4
		Reach Total:	91.9	37.2		45.1	18.2		67.4	27.3		79.3	32.1
		Reach Average:	15.3	6.2		7.5	3.0		11.2	4.5		13.2	5.4

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Forbs			Total Woodies			Total all plant lifeforms		
					Canopy Cover	polysize x %ccforb		Canopy Cover	polysize x %ccforwood		Canopy Cover	polysize x %ccallifeform	
					(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)
OM-01	200410053	OLD19	1.27	0.51	0.2	0.3	0.1	0.2	0.3	0.1	0.7	0.9	0.4
	200410090	OLD22	13.84	5.6	0.2	2.8	1.1	0.2	2.8	1.1	0.6	8.3	3.4
	Reach Total:		15.1	6.1		3.0	1.2		3.0	1.2		9.2	3.7
	Reach Average:		7.6	3.1		1.5	0.6		1.5	0.6		4.6	1.9
	Overall total		1289.28	521.75		388.48	157.21		916.54	370.91		1139.20	461.02
Overall avg		53.72	21.74		16.19	6.55		38.19	15.45		47.47	19.21	
Overall %					30.1%	30.1%		71.1%	71.1%		88.4%	88.4%	
					Overall tot forb acres/overall tot poly acres			Overall tot woody acres/overall tot poly acres			Overall tot pit life form acres/overall tot poly acres		

Life Form	Plant Status ¹	area acres x 0.41		Percent of Project Area	Percent Canopy Cover ²			Constancy ³
		Area by Species			Avg	Range	Constancy ³	
		acres	hectares area sp acres* 0.41					
TREES								
narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	384.98	155.92	29.86%	34.40%	0.00%	40.00%	67.00%
balsam poplar (<i>Populus balsamifera</i>)	native	317.01	128.39	24.59%	24.90%	0.00%	70.00%	96.00%
white spruce (<i>Picea glauca</i>)	native	17.22	6.97	1.34%	16.10%	0.00%	30.00%	8.00%
plains cottonwood (<i>Populus deltoides</i>)	native	1.78	0.72	0.14%	18.70%	0.00%	20.00%	8.00%
aspen (<i>Populus tremuloides</i>)	native	1.05	0.43	0.08%	2.30%	0.00%	3.00%	8.00%
lodgepole pine (<i>Pinus contorta</i>)	native	0.98	0.40	0.08%	3.00%	0.00%	3.00%	4.00%
Manitoba maple (<i>Acer negundo</i>)	native	0.65	0.26	0.05%	2.30%	0.00%	3.00%	8.00%
Douglas-fir (<i>Pseudotsuga menziesii</i>)	native	0.58	0.23	0.04%	1.30%	0.00%	10.00%	13.00%
white birch (<i>Betula papyrifera</i>)	native	0.11	0.04	0.01%	3.00%	0.00%	3.00%	4.00%
limber pine (<i>Pinus flexilis</i>)	native	0.06	0.02	0.005%	0.50%	0.00%	0.50%	8.00%
Tree (Tree)	unknown	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4.00%
Total area covered by TREE species =		724.5	283.4					
SHRUBS								
buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	151.16	61.22	11.72%	11.70%	0.50%	30.00%	100.00%
choke cherry (<i>Prunus virginiana</i>)	native	140.25	56.80	10.88%	12.70%	0.00%	30.00%	79.00%
sandbar willow (<i>Salix exigua</i>)	native	100.98	40.90	7.83%	8.50%	0.00%	40.00%	92.00%
thorny buffaloberry (<i>Shepherdia argentea</i>)	native	92.69	37.54	7.19%	8.90%	0.00%	30.00%	54.00%
silverberry (<i>Elaeagnus commutata</i>)	native	83.31	33.74	6.46%	9.10%	0.00%	20.00%	67.00%
saskatoon (<i>Amelanchier alnifolia</i>)	native	67.58	27.37	5.24%	5.90%	0.00%	30.00%	75.00%
yellow willow (<i>Salix lutea</i>)	native	57.24	23.18	4.44%	4.60%	0.00%	30.00%	88.00%
beaked willow (<i>Salix bebbiana</i>)	native	50.03	20.26	3.88%	9.10%	0.00%	30.00%	46.00%
peach-leaved willow (<i>Salix amygdaloides</i>)	native	47.38	19.19	3.67%	6.40%	0.00%	20.00%	33.00%
water birch (<i>Betula occidentalis</i>)	native	39.37	15.94	3.05%	4.90%	0.00%	10.00%	38.00%
red-osier dogwood (<i>Cornus stolonifera</i>)	native	16.92	6.85	1.31%	2.20%	0.00%	20.00%	46.00%
common wild rose (<i>Rosa woodsii</i>)	native	16.87	6.83	1.31%	1.90%	0.00%	20.00%	58.00%
western clematis (<i>Clematis ligusticifolia</i>)	native	15.81	6.40	1.23%	1.50%	0.00%	3.00%	67.00%
northern gooseberry (<i>Ribes oxycanthoides</i>)	native	4.14	1.68	0.32%	1.00%	0.00%	3.00%	33.00%
shining willow (<i>Salix lucida</i>)	native	3.68	1.49	0.29%	1.00%	0.00%	3.00%	13.00%
velvet-fruited willow (<i>Salix maccaffiana</i>)	native	3.28	1.33	0.25%	10.00%	0.00%	10.00%	4.00%
prickly rose (<i>Rosa acicularis</i>)	native	3.09	1.25	0.24%	0.70%	0.00%	3.00%	42.00%
skunkbush (<i>Rhus trilobata</i>)	native	3.02	1.22	0.23%	0.60%	0.00%	3.00%	46.00%
green alder (<i>Alnus crispa</i>)	native	2.59	1.05	0.20%	0.50%	0.00%	0.50%	25.00%
common caragana (<i>Caragana arborescens</i>)	invasive	2.15	0.87	0.17%	5.10%	0.00%	10.00%	8.00%
silver sagebrush (<i>Artemisia cana</i>)	native	1.79	0.72	0.14%	1.20%	0.00%	3.00%	29.00%
ground juniper (<i>Juniperus communis</i>)	native	1.45	0.59	0.11%	0.50%	0.00%	0.50%	17.00%
Canada buffaloberry (<i>Shepherdia canadensis</i>)	native	1.41	0.57	0.11%	1.20%	0.00%	3.00%	17.00%
round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	1.36	0.55	0.11%	0.50%	0.00%	0.50%	8.00%
basket willow (<i>Salix petiolaris</i>)	native	1.08	0.44	0.08%	2.10%	0.00%	3.00%	8.00%
false mountain willow (<i>Salix pseudomonticola</i>)	native	1	0.41	0.08%	2.70%	0.00%	3.00%	8.00%
flat-leaved willow (<i>Salix planifolia</i>)	native	0.99	0.40	0.08%	0.50%	0.00%	0.50%	4.00%
creeping juniper (<i>Juniperus horizontalis</i>)	native	0.81	0.33	0.06%	0.80%	0.00%	3.00%	21.00%
wild red raspberry (<i>Rubus idaeus</i>)	native	0.68	0.28	0.05%	0.50%	0.00%	0.50%	17.00%
shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.61	0.25	0.05%	0.50%	0.00%	0.50%	21.00%
Drummond's willow (<i>Salix drummondiana</i>)	native	0.27	0.11	0.02%	0.50%	0.00%	0.50%	4.00%
common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.26	0.11	0.02%	0.50%	0.00%	0.50%	17.00%
golden currant (<i>Ribes aureum</i>)	native	0.25	0.10	0.02%	3.00%	0.00%	3.00%	4.00%
river alder (<i>Alnus tenuifolia</i>)	native	0.21	0.09	0.02%	0.50%	0.00%	0.50%	8.00%
willow (<i>Salix spp.</i>)	native	0.18	0.07	0.01%	0.50%	0.00%	0.50%	13.00%
creeping mahonia (<i>Berberis repens</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
yellow mountain avens (<i>Dryas drummondii</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
twining honeysuckle (<i>Lonicera dioica</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
bracted honeysuckle (<i>Lonicera involucrata</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
wild red currant (<i>Ribes triste</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
dewberry (<i>Rubus pubescens</i>)	native	0.11	0.04	0.01%	0.50%	0.00%	0.50%	4.00%
pussy willow (<i>Salix discolor</i>)	native	0.11	0.04	0.01%	0.50%	0.00%	0.50%	4.00%
red twinberry (<i>Lonicera utahensis</i>)	native	0.1	0.04	0.01%	0.50%	0.00%	0.50%	4.00%
Shrub (Shrub)	unknown	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4.00%
scarlet mallow (<i>Sphaeralcea coccinea</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4.00%
Total area covered by SHRUBS species =		915.4	370.4					
GRASSES AND GRASS-LIKES								
smooth brome (<i>Bromus inermis</i>)	disturbance	409.61	165.89	31.77%	32.00%	0.00%	60.00%	92.00%
quack grass (<i>Agropyron repens</i>)	disturbance	125.93	51.00	9.77%	12.80%	0.00%	30.00%	71.00%
Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	82.71	33.50	6.42%	7.90%	0.00%	30.00%	88.00%
western wheat grass (<i>Agropyron smithii</i>)	native	65.29	26.44	5.06%	7.50%	0.00%	20.00%	58.00%
redtop (<i>Agrostis stolonifera</i>)	introduced	55.19	22.35	4.28%	5.50%	0.00%	10.00%	88.00%
slender wheat grass (<i>Agropyron trachycaulum</i>)	native	51.1	20.70	3.96%	6.20%	0.00%	40.00%	58.00%
sand grass (<i>Calamovilfa longifolia</i>)	native	41.23	16.70	3.20%	8.80%	0.00%	20.00%	17.00%
small bottle sedge (<i>Carex utriculata</i>)	native	28.75	11.64	2.23%	5.80%	0.00%	30.00%	46.00%
needle-and-thread (<i>Stipa comata</i>)	native	28.27	11.45	2.19%	2.60%	0.00%	10.00%	58.00%
reed canary grass (<i>Phalaris arundinacea</i>)	native	25.76	10.43	2.00%	3.80%	0.00%	30.00%	54.00%
timothy (<i>Phleum pratense</i>)	disturbance	16.76	6.79	1.30%	1.80%	0.00%	3.00%	58.00%
green needle grass (<i>Stipa viridula</i>)	native	15.18	6.15	1.18%	1.60%	0.00%	10.00%	63.00%
foxtail barley (<i>Hordeum jubatum</i>)	disturbance	15.04	6.09	1.17%	1.30%	0.00%	20.00%	88.00%
crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	10.6	4.29	0.82%	3.10%	0.00%	20.00%	29.00%
Canada wild rye (<i>Elymus canadensis</i>)	native	10.26	4.16	0.80%	1.20%	0.00%	3.00%	50.00%
water sedge (<i>Carex aquatilis</i>)	native	10.04	4.07	0.78%	3.00%	0.00%	10.00%	17.00%
tufted hair grass (<i>Deschampsia cespitosa</i>)	native	9.01	3.65	0.70%	1.40%	0.00%	3.00%	42.00%
blue grama (<i>Bouteloua gracilis</i>)	native	7.21	2.92	0.56%	2.90%	0.00%	3.00%	8.00%
woolly sedge (<i>Carex lanuginosa</i>)	native	7.08	2.87	0.55%	1.90%	0.00%	3.00%	38.00%

Life Form	Plant Status ¹	Area by Species		Percent of Project Area	Percent Canopy Cover ²		Constancy ³	
		Area by Species			Avg	Range		
		Area by Species						
		acres	hectares					Percent of Project Area
area in acres ⁴	area in hectares ⁵	Percent of Project Area (C3)						
0.41	0.41							
GRASSES AND GRASS-LIKES continued								
creeping spike-rush (<i>Eleocharis palustris</i>)	native	4.97	2.01	0.39%	0.60%	0.00%	3.00%	75.00%
bluejoint (<i>Calamagrostis canadensis</i>)	native	4.94	2.00	0.38%	0.70%	0.00%	3.00%	38.00%
Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	4.29	1.74	0.33%	1.00%	0.00%	3.00%	25.00%
wire rush (<i>Juncus balticus</i>)	native	3.91	1.58	0.30%	0.90%	0.00%	3.00%	46.00%
downy chess (<i>Bromus tectorum</i>)	invasive	3.36	1.36	0.26%	1.00%	0.00%	3.00%	29.00%
rush (<i>Juncus spp.</i>)	native	3.1	1.26	0.24%	0.50%	0.00%	0.50%	33.00%
small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	2.93	1.19	0.23%	1.40%	0.00%	3.00%	38.00%
June grass (<i>Koeleria macrantha</i>)	native	2.57	1.04	0.20%	0.50%	0.00%	0.50%	54.00%
northern wheat grass (<i>Agropyron dasystachyum</i>)	native	2.12	0.86	0.16%	2.70%	0.00%	3.00%	13.00%
slough grass (<i>Beckmannia syzigachne</i>)	native	2.09	0.85	0.16%	0.50%	0.00%	0.50%	25.00%
orchard grass (<i>Dactylis glomerata</i>)	native	1.67	0.68	0.13%	0.50%	0.00%	0.50%	25.00%
Japanese chess (<i>Bromus japonicus</i>)	disturbance	1.45	0.59	0.11%	0.50%	0.00%	0.50%	17.00%
common tall manna grass (<i>Glyceria grandis</i>)	native	1.2	0.49	0.09%	0.50%	0.00%	0.50%	29.00%
great bulrush (<i>Scirpus acutus</i>)	native	1.18	0.48	0.09%	0.50%	0.00%	0.50%	17.00%
Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	1.1	0.45	0.09%	0.50%	0.00%	0.50%	21.00%
alkali cord grass (<i>Spartina gracilis</i>)	native	0.99	0.40	0.08%	0.50%	0.00%	0.50%	4.00%
knotted rush (<i>Juncus nodosus</i>)	native	0.93	0.38	0.07%	0.50%	0.00%	0.50%	4.00%
alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.64	0.26	0.05%	0.50%	0.00%	0.50%	25.00%
common great bulrush (<i>Scirpus validus</i>)	native	0.62	0.25	0.05%	0.50%	0.00%	0.50%	38.00%
fowl manna grass (<i>Glyceria striata</i>)	native	0.58	0.23	0.04%	0.50%	0.00%	0.50%	17.00%
awned sedge (<i>Carex atherodes</i>)	native	0.39	0.16	0.03%	0.50%	0.00%	0.50%	8.00%
Sartwell's sedge (<i>Carex sartwellii</i>)	native	0.37	0.15	0.03%	0.50%	0.00%	0.50%	4.00%
Canada bluegrass (<i>Poa compressa</i>)	native	0.29	0.12	0.02%	1.40%	0.00%	3.00%	13.00%
equitant-leaved rush (<i>Juncus ensifolius</i>)	native	0.26	0.11	0.02%	0.50%	0.00%	0.50%	13.00%
three-square rush (<i>Scirpus pungens</i>)	native	0.26	0.11	0.02%	0.50%	0.00%	0.50%	13.00%
sedge (<i>Carex spp.</i>)	native	0.25	0.10	0.02%	0.50%	0.00%	0.50%	17.00%
short-awned foxtail (<i>Alopecurus aequalis</i>)	native	0.18	0.07	0.01%	0.50%	0.00%	0.50%	4.00%
alpine foxtail (<i>Alopecurus occidentalis</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
short-awned sedge (<i>Carex microglochin</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
foothills rough fescue (<i>Festuca campestris</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
Richardson needle grass (<i>Stipa richardsonii</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4.00%
wild oat (<i>Avena fatua</i>)	disturbance	0.1	0.04	0.01%	0.50%	0.00%	0.50%	4.00%
green foxtail (<i>Setaria viridis</i>)	native	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4.00%
cultivated barley (<i>Hordeum vulgare</i>)	introduced	0.06	0.02	0.005%	0.50%	0.00%	0.50%	4.00%
wheat grass (<i>Agropyron spp.</i>)	unknown	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4.00%
brome grass (<i>Bromus spp.</i>)	unknown	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4.00%
giant wild rye (<i>Elymus piperi</i>)	native	0.02	0.01	0.002%	0.50%	0.00%	0.50%	4.00%
hairy wild rye (<i>Elymus innotatus</i>)	native	0.01	0.00	0.001%	0.50%	0.00%	0.50%	4.00%
Total area covered by GRASS AND GRASS-LIKE species =		1062.64	430.37					
FORBS								
leafy spurge (<i>Euphorbia esula</i>)	invasive	68.21	27.63	5.29%	11.00%	0.00%	40.00%	58.00%
wild licorice (<i>Glycyrrhiza lepidota</i>)	native	60.21	24.39	4.67%	5.20%	0.00%	10.00%	88.00%
Canada thistle (<i>Cirsium arvense</i>)	invasive	48.9	19.80	3.79%	3.80%	0.50%	30.00%	100.00%
white sweet-clover (<i>Melilotus alba</i>)	disturbance	46.32	18.76	3.59%	4.00%	0.00%	40.00%	83.00%
absinthe wormwood (<i>Artemisia absinthium</i>)	native	23.92	9.69	1.86%	4.30%	0.00%	10.00%	42.00%
yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	22.58	9.14	1.75%	2.60%	0.00%	20.00%	71.00%
hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	13.29	5.38	1.03%	1.10%	0.00%	10.00%	83.00%
common burdock (<i>Arctium minus</i>)	disturbance	10.3	4.17	0.80%	1.20%	0.00%	3.00%	63.00%
Canada goldenrod (<i>Solidago canadensis</i>)	native	9.51	3.85	0.74%	0.80%	0.00%	10.00%	92.00%
Indian hemp (<i>Apocynum cannabinum</i>)	native	8.13	3.29	0.63%	1.50%	0.00%	3.00%	38.00%
golden bean (<i>Thermopsis rhombifolia</i>)	native	8.11	3.28	0.63%	0.80%	0.00%	20.00%	50.00%
viper's-bugloss (<i>Echium vulgare</i>)	invasive	7.86	3.18	0.61%	1.20%	0.00%	3.00%	25.00%
silky perennial lupine (<i>Lupinus sericeus</i>)	native	7.61	3.08	0.59%	1.40%	0.00%	3.00%	21.00%
common dandelion (<i>Taraxacum officinale</i>)	disturbance	7.42	3.01	0.58%	0.70%	0.00%	3.00%	71.00%
common scouring-rush (<i>Equisetum hyemale</i>)	native	7.27	2.94	0.56%	0.50%	0.00%	0.50%	92.00%
flixweed (<i>Descurainia sophia</i>)	disturbance	5.95	2.41	0.46%	1.30%	0.00%	3.00%	46.00%
silverweed (<i>Potentilla anserina</i>)	disturbance	5.61	2.27	0.44%	1.30%	0.00%	10.00%	50.00%
ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	5.52	2.24	0.43%	0.60%	0.00%	3.00%	58.00%
wild bergamot (<i>Monarda fistulosa</i>)	native	5.21	2.11	0.40%	0.60%	0.00%	10.00%	54.00%
common plantain (<i>Plantago major</i>)	disturbance	5.14	2.08	0.40%	0.50%	0.00%	0.50%	75.00%
wild mint (<i>Mentha arvensis</i>)	native	5.09	2.06	0.39%	0.50%	0.00%	3.00%	79.00%
plains wormwood (<i>Artemisia campestris</i>)	native	4.93	2.00	0.38%	0.50%	0.00%	3.00%	46.00%
common goat's-beard (<i>Tragopogon dubius</i>)	introduced	4.74	1.92	0.37%	0.50%	0.00%	0.50%	71.00%
perennial sow-thistle (<i>Sonchus oleraceus</i>)	invasive	4.74	1.92	0.37%	0.50%	0.00%	0.50%	79.00%
common yarrow (<i>Achillea millefolium</i>)	native	4.68	1.90	0.36%	0.50%	0.00%	0.50%	71.00%
common mullein (<i>Verbascum thapsus</i>)	introduced	4.45	1.80	0.35%	0.50%	0.00%	0.50%	54.00%
diffuse knapweed (<i>Centaurea diffusa</i>)	invasive	4.23	1.71	0.33%	1.60%	0.00%	10.00%	17.00%
bull thistle (<i>Cirsium vulgare</i>)	introduced	4.2	1.70	0.33%	0.60%	0.00%	3.00%	54.00%
tall buttercup (<i>Ranunculus acris</i>)	invasive	4.12	1.67	0.32%	1.20%	0.00%	3.00%	21.00%
curled dock (<i>Rumex crispus</i>)	introduced	4.08	1.65	0.32%	0.50%	0.00%	0.50%	54.00%
common horsetail (<i>Equisetum arvense</i>)	poisonous	4.07	1.65	0.32%	0.50%	0.00%	0.50%	71.00%
black medick (<i>Medicago lupulina</i>)	disturbance	3.88	1.57	0.30%	0.50%	0.00%	0.50%	67.00%
tufted vetch (<i>Vicia cracca</i>)	introduced	3.84	1.56	0.30%	0.60%	0.00%	3.00%	25.00%
prairie coneflower (<i>Ratibida columnifera</i>)	native	3.78	1.53	0.29%	0.50%	0.00%	0.50%	38.00%
wild blue flax (<i>Linum lewisii</i>)	native	3.67	1.49	0.28%	0.50%	0.00%	0.50%	33%
yellow evening-primrose (<i>Oenothera biennis</i>)	native	3.67	1.49	0.28%	0.50%	0.00%	0.50%	50%
showy milkweed (<i>Asclepias speciosa</i>)	poisonous	3.65	1.48	0.28%	0.50%	0.00%	0.50%	42%
gumweed (<i>Grindelia squarrosa</i>)	native	3.53	1.43	0.27%	0.50%	0.00%	0.50%	33%
wild vetch (<i>Vicia americana</i>)	native	3.37	1.36	0.26%	0.50%	0.00%	0.50%	50%
star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	3.15	1.28	0.24%	0.50%	0.00%	0.50%	33%
golden aster (<i>Heterotheca villosa</i>)	native	3.1	1.26	0.24%	0.50%	0.00%	3.00%	42%
gaillardia (<i>Gaillardia aristata</i>)	native	3.01	1.22	0.23%	0.50%	0.00%	0.50%	38%
broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	2.97	1.20	0.23%	0.50%	0.00%	0.50%	25%
veiny meadow rue (<i>Thalictrum venulosum</i>)	native	2.93	1.19	0.23%	0.50%	0.00%	0.50%	21%

Life Form	Plant Status ¹	area acres x 0.41		Percent of Project Area	Percent Canopy Cover ²			
		Area by Species			Avg	Range	Constancy ³	
		acres	hectares					
			area in acres* 0.41					area in hectares acres/0.41 (C3)
FORBS continued								
harebell (<i>Campanula rotundifolia</i>)	native	2.75	1.11	0.21%	0.50%	0.00%	0.50%	25%
pasture sagewort (<i>Artemisia frigida</i>)	native	2.68	1.09	0.21%	0.50%	0.00%	3.00%	58%
bladder campion (<i>Silene cucubalus</i>)	<i>invasive</i>	2.56	1.04	0.20%	0.50%	0.00%	0.50%	25%
common pepper-grass (<i>Lepidium densiflorum</i>)	<i>introduced</i>	2.5	1.01	0.19%	0.50%	0.00%	0.50%	50%
fringed loosestrife (<i>Lysimachia ciliata</i>)	native	2.3	0.93	0.18%	0.50%	0.00%	0.50%	13%
lamb's-quarters (<i>Chenopodium album</i>)	<i>disturbance</i>	2.28	0.92	0.18%	0.50%	0.00%	0.50%	21%
wormseed mustard (<i>Erysimum cheiranthoides</i>)	<i>disturbance</i>	2.21	0.90	0.17%	1.70%	0.00%	3.00%	17%
graceful cinquefoil (<i>Potentilla gracilis</i>)	native	2.09	0.85	0.16%	0.80%	0.00%	3.00%	17%
showy locoweed (<i>Oxytropis splendens</i>)	<i>poisonous</i>	2.09	0.85	0.16%	0.50%	0.00%	0.50%	25%
black henbane (<i>Hyoscyamus niger</i>)	native	2.07	0.84	0.16%	0.50%	0.00%	0.50%	13%
northern bedstraw (<i>Galium boreale</i>)	native	1.96	0.79	0.15%	0.50%	0.00%	0.50%	33%
Canada anemone (<i>Anemone canadensis</i>)	native	1.92	0.78	0.15%	0.50%	0.00%	0.50%	25%
nodding onion (<i>Allium cernuum</i>)	native	1.76	0.71	0.14%	0.50%	0.00%	0.50%	21%
rough cinquefoil (<i>Potentilla norvegica</i>)	<i>disturbance</i>	1.75	0.71	0.14%	0.50%	0.00%	0.50%	29%
butter-and-eggs (<i>Linaria vulgaris</i>)	<i>invasive</i>	1.73	0.70	0.13%	0.50%	0.00%	0.50%	17%
prairie sagewort (<i>Artemisia ludoviciana</i>)	native	1.7	0.69	0.13%	0.50%	0.00%	0.50%	46%
Russian knapweed (<i>Centaurea repens</i>)	<i>invasive</i>	1.61	0.65	0.12%	0.60%	0.00%	3.00%	17%
stinkweed (<i>Thlaspi arvense</i>)	<i>disturbance</i>	1.57	0.64	0.12%	0.50%	0.00%	0.50%	46%
common cattail (<i>Typha latifolia</i>)	native	1.51	0.61	0.12%	0.50%	0.00%	0.50%	13%
bristly stickseed (<i>Lappula echinata</i>)	<i>disturbance</i>	1.51	0.61	0.12%	0.50%	0.00%	0.50%	17%
white clover (<i>Trifolium repens</i>)	<i>disturbance</i>	1.47	0.60	0.11%	0.50%	0.00%	0.50%	17%
erigeron (<i>Erigeron</i> spp.)	unknown	1.47	0.60	0.11%	0.50%	0.00%	0.50%	13%
seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	1.41	0.57	0.11%	0.50%	0.00%	0.50%	33%
Forb (<i>Forb</i>)	unknown	1.41	0.57	0.11%	0.50%	0.00%	0.50%	29%
Russian-thistle (<i>Salsola kali</i>)	<i>disturbance</i>	1.31	0.53	0.10%	0.60%	0.00%	3.00%	13%
asparagus (<i>Asparagus officinalis</i>)	<i>introduced</i>	1.3	0.53	0.10%	0.50%	0.00%	0.50%	13%
knotweed (<i>Polygonum aviculare</i>)	native	1.19	0.48	0.09%	0.50%	0.00%	0.50%	4%
polygonum (<i>Polygonum</i> spp.)	unknown	1.1	0.45	0.09%	0.50%	0.00%	0.50%	8%
red clover (<i>Trifolium pratense</i>)	<i>disturbance</i>	1.03	0.42	0.08%	1.10%	0.00%	3.00%	8%
cut-leaved anemone (<i>Anemone multifida</i>)	native	1.02	0.41	0.08%	0.50%	0.00%	0.50%	17%
dotted blazingstar (<i>Liatris punctata</i>)	native	0.99	0.40	0.08%	0.50%	0.00%	0.50%	4%
spreading sweet cicely (<i>Osmorhiza depauperata</i>)	native	0.98	0.40	0.08%	3.00%	0.00%	3.00%	4%
entire-leaved groundsel (<i>Senecio integerrimus</i>)	native	0.98	0.40	0.08%	3.00%	0.00%	3.00%	4%
wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.97	0.39	0.08%	0.50%	0.00%	0.50%	8%
dog mustard (<i>Erucastrum gallicum</i>)	<i>disturbance</i>	0.93	0.38	0.07%	0.50%	0.00%	0.50%	4%
white prairie-clover (<i>Petalostemon candidum</i>)	native	0.93	0.38	0.07%	0.50%	0.00%	0.50%	4%
smooth aster (<i>Aster laevis</i>)	native	0.93	0.38	0.07%	0.50%	0.00%	0.50%	33%
early yellow locoweed (<i>Oxytropis sericea</i>)	<i>poisonous</i>	0.92	0.37	0.07%	0.50%	0.00%	0.50%	25%
alsike clover (<i>Trifolium hybridum</i>)	<i>disturbance</i>	0.82	0.33	0.06%	0.50%	0.00%	0.50%	29%
spotted knapweed (<i>Centaurea maculosa</i>)	<i>invasive</i>	0.78	0.32	0.06%	1.60%	0.00%	3.00%	8%
alfalfa (<i>Medicago sativa</i>)	<i>introduced</i>	0.74	0.30	0.06%	0.50%	0.00%	0.50%	29%
water parsnip (<i>Sium suave</i>)	native	0.68	0.28	0.05%	0.50%	0.00%	0.50%	8%
wild strawberry (<i>Fragaria virginiana</i>)	<i>disturbance</i>	0.68	0.28	0.05%	0.50%	0.00%	0.50%	17%
cow parsnip (<i>Heracleum lanatum</i>)	native	0.53	0.21	0.04%	0.50%	0.00%	0.50%	13%
woolly groundell (<i>Lithospermum ruderales</i>)	native	0.53	0.21	0.04%	0.50%	0.00%	0.50%	13%
field mouse-ear chickweed (<i>Cerastium arvense</i>)	<i>disturbance</i>	0.53	0.21	0.04%	0.50%	0.00%	0.50%	8%
sticky purple geranium (<i>Geranium viscosissimum</i>)	native	0.53	0.21	0.04%	0.50%	0.00%	0.50%	8%
three-flowered avens (<i>Geum triflorum</i>)	native	0.53	0.21	0.04%	0.50%	0.00%	0.50%	8%
western dock (<i>Rumex occidentalis</i>)	native	0.53	0.21	0.04%	0.50%	0.00%	0.50%	13%
sneezeweed (<i>Helenium autumnale</i>)	native	0.52	0.21	0.04%	1.50%	0.00%	3.00%	8%
celary-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.48	0.19	0.04%	0.50%	0.00%	0.50%	8%
water smartweed (<i>Polygonum amphibium</i>)	native	0.47	0.19	0.04%	0.50%	0.00%	0.50%	8%
water-hemlock (<i>Cicuta maculata</i>)	<i>poisonous</i>	0.46	0.19	0.04%	0.50%	0.00%	0.50%	17%
common nettle (<i>Urtica dioica</i>)	native	0.41	0.17	0.03%	0.50%	0.00%	0.50%	17%
western bluebur (<i>Lappula occidentalis</i>)	native	0.39	0.16	0.03%	0.50%	0.00%	0.50%	8%
sweet clover (<i>Melilotus</i> spp.)	unknown	0.38	0.15	0.03%	0.50%	0.00%	0.50%	8%
yellow avens (<i>Geum aleppicum</i>)	native	0.37	0.15	0.03%	0.50%	0.00%	0.50%	4%
pineappleweed (<i>Matricaria matricarioides</i>)	<i>introduced</i>	0.37	0.15	0.03%	0.50%	0.00%	0.50%	4%
palmeto-leaved coltsfoot (<i>Petasites palmatus</i>)	native	0.37	0.15	0.03%	0.50%	0.00%	0.50%	4%
arrow-leaved coltsfoot (<i>Petasites sagittatus</i>)	native	0.37	0.15	0.03%	0.50%	0.00%	0.50%	4%
artemisia (<i>Artemisia</i> spp.)	native	0.32	0.13	0.02%	0.50%	0.00%	0.50%	8%
smooth fleabane (<i>Erigeron glabellus</i>)	native	0.32	0.13	0.02%	0.50%	0.00%	0.50%	8%
goldenrod (<i>Solidago</i> spp.)	native	0.31	0.13	0.02%	0.50%	0.00%	0.50%	4%
cocklebur (<i>Xanthium strumarium</i>)	native	0.31	0.13	0.02%	0.50%	0.00%	0.50%	13%
mustard (<i>Brassica</i> spp.)	unknown	0.27	0.11	0.02%	0.50%	0.00%	0.50%	4%
broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.27	0.11	0.02%	0.50%	0.00%	0.50%	4%
common mare's-tail (<i>Hippuris vulgaris</i>)	native	0.27	0.11	0.02%	0.50%	0.00%	0.50%	4%
alpine goldenrod (<i>Solidago multiradiata</i>)	native	0.27	0.11	0.02%	0.50%	0.00%	0.50%	4%
Philadelphia fleabane (<i>Erigeron philadelphicus</i>)	native	0.26	0.11	0.02%	0.50%	0.00%	0.50%	13%
small-leaved everlasting (<i>Antennaria parvifolia</i>)	<i>disturbance</i>	0.2	0.08	0.02%	0.50%	0.00%	0.50%	8%
common annual sunflower (<i>Helianthus annuus</i>)	native	0.2	0.08	0.02%	0.50%	0.00%	0.50%	13%
summer-cypress (<i>Kochia scoparia</i>)	<i>introduced</i>	0.18	0.07	0.01%	0.50%	0.00%	0.50%	4%
yellow columbine (<i>Aquilegia flavescens</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
rock cress (<i>Arabis</i> spp.)	unknown	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
mariposa lily (<i>Calochortus apiculatus</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
common red paintbrush (<i>Castilleja miniata</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
purple avens (<i>Geum rivale</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
blue beardtongue (<i>Penstemon albertinus</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
false Solomon's-seal (<i>Smilacina racemosa</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
heart-leaved Alexanders (<i>Zizia aptera</i>)	native	0.16	0.06	0.01%	0.50%	0.00%	0.50%	4%
bluebur (<i>Lappula squarrosa</i>)	<i>disturbance</i>	0.14	0.06	0.01%	0.50%	0.00%	0.50%	13%
common tansy (<i>Tanacetum vulgare</i>)	<i>invasive</i>	0.11	0.04	0.01%	0.50%	0.00%	0.50%	4%
western water-horehound (<i>Lycopus asper</i>)	native	0.11	0.04	0.01%	0.70%	0.00%	3.00%	8%
smooth catchfly (<i>Silene cserei</i>)	<i>disturbance</i>	0.11	0.04	0.01%	0.50%	0.00%	0.50%	4%
aster (<i>Aster</i> spp.)	unknown	0.1	0.04	0.01%	0.50%	0.00%	0.50%	4%

Life Form	Plant Status ¹	Area by Species		Percent of Project Area	Percent Canopy Cover ²			Constancy ³
		acres	hectares		Avg	Range		
FORBS continued								
mountain wild parsnip (<i>Lomatium dissectum</i>)	native	0.1	0.04	0.01%	0.50%	0.00%	0.50%	4%
ball mustard (<i>Neslia paniculata</i>)	disturbance	0.1	0.04	0.01%	0.50%	0.00%	0.50%	8%
common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.08	0.03	0.01%	0.50%	0.00%	0.50%	8%
amaranthus (<i>Amaranthus spp.</i>)	unknown	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4%
tufted white prairie aster (<i>Aster ericoides</i>)	native	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4%
false ragweed (<i>Iva xanthifolia</i>)	introduced	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4%
cinquefoil (<i>Potentilla spp.</i>)	native	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4%
dock; sorrel (<i>Rumex spp.</i>)	unknown	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4%
prickly annual sow-thistle (<i>Sonchus asper</i>)	native	0.07	0.03	0.01%	0.50%	0.00%	0.50%	4%
northern willowherb (<i>Epilobium ciliatum</i>)	native	0.06	0.02	0.005%	0.50%	0.00%	0.50%	4%
western willow aster (<i>Aster hesperus</i>)	native	0.06	0.02	0.005%	0.50%	0.00%	0.50%	8%
milk vetch (<i>Astragalus spp.</i>)	unknown	0.06	0.02	0.005%	0.50%	0.00%	0.50%	4%
prickly-pear (<i>Opuntia polyacantha</i>)	native	0.06	0.02	0.005%	0.50%	0.00%	0.50%	4%
white cockle (<i>Silene pratensis</i>)	invasive	0.06	0.02	0.005%	0.50%	0.00%	0.50%	4%
pale persicaria (<i>Polygonum lapathifolium</i>)	native	0.05	0.02	0.004%	0.50%	0.00%	0.50%	4%
marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.05	0.02	0.004%	0.50%	0.00%	0.50%	13%
hoary cress (<i>Cardaria chalapensis</i>)	invasive	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
tail blue lettuce (<i>Lactuca biennis</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
bottle-primrose (<i>Oenothera caespitosa</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
marsh ragwort (<i>Senecio congestus</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
purple milk vetch (<i>Astragalus dasyglossis</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
creeping fleabane (<i>Erigeron flagellaris</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
prairie cinquefoil (<i>Potentilla pensylvanica</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
low goldenrod (<i>Solidago missouriensis</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
bog violet (<i>Viola nephrophylla</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
prairie onion (<i>Allium textile</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
silvery perennial lupine (<i>Lupinus argenteus</i>)	native	0.04	0.02	0.003%	0.50%	0.00%	0.50%	4%
red-root pigweed (<i>Amaranthus retroflexus</i>)	disturbance	0.01	0.004	0.001%	0.50%	0.00%	0.50%	4%
common knotweed (<i>Polygonum arenastrum</i>)	disturbance	0.01	0.004	0.001%	0.50%	0.00%	0.50%	4%
scantless chamomile (<i>Matricaria perforata</i>)	invasive	0.01	0.004	0.001%	0.50%	0.00%	0.50%	4%
Total area covered by FORB species =		549.80	222.71					

Summary		Total # of native plants =	165
Total # of species = 271		Total # of restricted weeds =	0
Total # of TREE species = 11		Total # of invasive weeds =	19
Total # of SHRUB species = 45		Total # of disturbance plants =	34
Total # of GRAM species = 57		Total # of plants with poisonous properties =	5
Total # of FORB species = 158			

¹ Plant status is designated by Cows and Fish in association with Alberta Public Lands and the Alberta Weed Control Act. Those species with a plant status highlighted in bold (e.g. noxious) are included in the health parameter score for "Invasive Plant Species". Unknown = plant not identified to species, status unknown.

² Based on visual estimates of the amount of ground the canopy of the plant covers. The percent cover values presented are the mid-values for the following ranges: 0.5=less than 1%; 3.0=1%-5%; 10.0=5%-15%; 20.0=15%-25%; 30.0=25%-35%; 40.0=35%-45%; 50.0=45%-55%; 60.0=55%-65%; 70.0=65%-75%; 80.0=75%-85%; 90.0=85%-95%; 97.5=greater than 95%; - = not observed.

³ Constancy is the number of times the species occurs divided by the total number of polygons.

Riparian Plant Information (CATI)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CATI
Trees	aspen (<i>Populus tremuloides</i>)	native	3.0
	balsam poplar (<i>Populus balsamifera</i>)	native	3.0
	Douglas-fir (<i>Pseudotsuga menziesii</i>)	native	0.5
	lodgepole pine (<i>Pinus contorta</i>)	native	3.0
	white spruce (<i>Picea glauca</i>)	native	30.0
Shrubs	basket willow (<i>Salix petiolaris</i>)	native	3.0
	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	bracted honeysuckle (<i>Lonicera involucrata</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	Canada buffaloberry (<i>Shepherdia canadensis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	creeping mahonia (<i>Berberis repens</i>)	native	0.5
	false mountain willow (<i>Salix pseudomonticola</i>)	native	3.0
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	river alder (<i>Alnus tenuifolia</i>)	native	0.5
	round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	twining honeysuckle (<i>Lonicera dioica</i>)	native	0.5
	velvet-fruited willow (<i>Salix maccalliana</i>)	native	10.0
	wild red currant (<i>Ribes triste</i>)	native	0.5
	wild red raspberry (<i>Rubus idaeus</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	alpine foxtail (<i>Alopecurus occidentalis</i>)	native	0.5
	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	downy chess (<i>Bromus tectorum</i>)	<i>invasive</i>	0.5
	foothills rough fescue (<i>Festuca campestris</i>)	native	0.5
	fowl manna grass (<i>Glyceria striata</i>)	native	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	3.0
	quack grass (<i>Agropyron repens</i>)	<i>disturbance</i>	0.5
	redtop (<i>Agrostis stolonifera</i>)	<i>introduced</i>	0.5
	Richardson needle grass (<i>Stipa richardsonii</i>)	native	0.5
	short-awned sedge (<i>Carex microglochin</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	10.0
	smooth brome (<i>Bromus inermis</i>)	<i>disturbance</i>	3.0
	timothy (<i>Phleum pratense</i>)	<i>disturbance</i>	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	<i>introduced</i>	0.5
	black medick (<i>Medicago lupulina</i>)	<i>introduced</i>	0.5
	blue beardtongue (<i>Penstemon albertinus</i>)	native	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	<i>invasive</i>	0.5
	common dandelion (<i>Taraxacum officinale</i>)	<i>disturbance</i>	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	<i>introduced</i>	0.5
	common horsetail (<i>Equisetum arvense</i>)	<i>poisonous</i>	0.5
	common mullein (<i>Verbascum thapsus</i>)	<i>introduced</i>	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common plantain (<i>Plantago major</i>)	<i>disturbance</i>	0.5
	common red paintbrush (<i>Castilleja miniata</i>)	native	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cow parsnip (<i>Heracleum lanatum</i>)	native	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	<i>poisonous</i>	0.5
	entire-leaved groundsel (<i>Senecio integerrimus</i>)	native	3.0
	false Solomon's-seal (<i>Smilacina racemosa</i>)	native	0.5

Riparian Plant Information (CAT1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CAT1
Forbs (broad leaf plants)	field mouse-ear chickweed (<i>Cerastium arvense</i>)	disturbance	0.5
	graceful cinquefoil (<i>Potentilla gracilis</i>)	native	3.0
	heart-leaved Alexanders (<i>Zizia aptera</i>)	native	0.5
	mariposa lily (<i>Calochortus apiculatus</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	purple avens (<i>Geum rivale</i>)	native	0.5
	rock cress (<i>Arabis spp.</i>)	native	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	native	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	spreading sweet cicely (<i>Osmorhiza depauperata</i>)	native	3.0
	sticky purple geranium (<i>Geranium viscosissimum</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	three-flowered avens (<i>Geum triflorum</i>)	native	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	white clover (<i>Trifolium repens</i>)	disturbance	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	woolly gromwell (<i>Lithospermum rudemale</i>)	native	0.5
	yellow columbine (<i>Aquilegia flavescens</i>)	native	0.5
	yellow mountain avens (<i>Dryas drummondii</i>)	native	0.5

Riparian Plant Information (CAT2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CAT2
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	Douglas-fir (<i>Pseudotsuga menziesii</i>)	native	0.5
	limber pine (<i>Pinus flexilis</i>)	native	0.5
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	common wild rose (<i>Rosa woodsii</i>)	native	10.0
	creeping juniper (<i>Juniperus horizontalis</i>)	native	3.0
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	3.0
	willow (<i>Salix spp.</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada bluegrass (<i>Poa compressa</i>)	disturbance	3.0
	downy chess (<i>Bromus tectorum</i>)	invasive	3.0
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	3.0
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	10.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	bog violet (<i>Viola nephrophylla</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0

Riparian Plant Information (CAT2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CAT2
Forbs (broad leaf plants)	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	creeping fleabane (<i>Erigeron flagellaris</i>)	native	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	poisonous	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	low goldenrod (<i>Solidago missouriensis</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	3.0
	pasture sagewort (<i>Artemisia frigida</i>)	native	3.0
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie cinquefoil (<i>Potentilla pensylvanica</i>)	native	0.5
	purple milk vetch (<i>Astragalus dasyglottis</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.5
	western willow aster (<i>Aster hesperius</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (CRW1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CRW1
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
	white spruce (<i>Picea glauca</i>)	native	10.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	30.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	0.5
	Canada buffaloberry (<i>Shepherdia canadensis</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	3.0
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	shining willow (<i>Salix lucida</i>)	native	3.0
	wild red raspberry (<i>Rubus idaeus</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	20.0
Grasses (and Grass-like species)	awned sedge (<i>Carex atherodes</i>)	native	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	introduced	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	30.0
	Sartwell's sedge (<i>Carex sartwellii</i>)	native	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5

Riparian Plant Information (CRW1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CRW1
Grasses (and Grass-like species)	small bottle sedge (<i>Carex utriculata</i>)	native	30.0
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	3.0
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	10.0
	wire rush (<i>Juncus balticus</i>)	native	3.0

Forbs (broad leaf plants)	arrow-leaved coltsfoot (<i>Petasites sagittatus</i>)	native	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	0.5
	butter-and-eggs (<i>Linaria vulgaris</i>)	invasive	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	celery-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	3.0
	common goat's-beard (<i>Tragopogon dubius</i>)	native	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cow parsnip (<i>Heracleum lanatum</i>)	native	0.5
	field mouse-ear chickweed (<i>Cerastium arvense</i>)	disturbance	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	3.0
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	palmate-leaved coltsfoot (<i>Petasites palmatus</i>)	native	0.5
	pineappleweed (<i>Matricaria matricarioides</i>)	introduced	0.5
	red clover (<i>Trifolium pratense</i>)	disturbance	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	sticky purple geranium (<i>Geranium viscosissimum</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	sweet clover (<i>Melilotus spp.</i>)	disturbance	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	3.0
	three-flowered avens (<i>Geum triflorum</i>)	native	0.5
	tufted vetch (<i>Vicia cracca</i>)	native	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	water parsnip (<i>Sium suave</i>)	native	0.5
	water smartweed (<i>Polygonum amphibium</i>)	native	0.5
	western bluebur (<i>Lappula occidentalis</i>)	native	0.5
	western dock (<i>Rumex occidentalis</i>)	native	0.5
	white clover (<i>Trifolium repens</i>)	disturbance	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	woolly gromwell (<i>Lithospermum rudemale</i>)	native	0.5

Riparian Plant Information (CRW2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CRW2
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	10
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common caragana (<i>Caragana arborescens</i>)	invasive	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	dewberry (<i>Rubus pubescens</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	pussy willow (<i>Salix discolor</i>)	native	0.5

Riparian Plant Information (CRW2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CRW2
Shrubs	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3
	water birch (<i>Betula occidentalis</i>)	native	10
	wild red raspberry (<i>Rubus idaeus</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	3
Grasses (and Grass-like species)	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	fowl manna grass (<i>Glyceria striata</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	20
	redtop (<i>Agrostis stolonifera</i>)	introduced	3
	reed canary grass (<i>Phalaris arundinacea</i>)	native	3
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	50
	timothy (<i>Phleum pratense</i>)	disturbance	3
	water sedge (<i>Carex aquatilis</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	3
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bristly stickseed (<i>Lappula echinata</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	butter-and-eggs (<i>Linaria vulgaris</i>)	invasive	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	celery-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	3
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tansy (<i>Tanacetum vulgare</i>)	invasive	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cow parsnip (<i>Heracleum lanatum</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	poisonous	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	graceful cinquefoil (<i>Potentilla gracilis</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	3
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	red clover (<i>Trifolium pratense</i>)	disturbance	3.0
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	3
	tufted vetch (<i>Vicia cracca</i>)	native	3
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5

Riparian Plant Information (CRW2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	CRW2
Forbs (broad leaf plants)	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	woolly gromwell (<i>Lithospermum ruderales</i>)	native	0.5

Riparian Plant Information (OLD1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD1
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	beaked willow (<i>Salix hebbiana</i>)	native	3.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	30.0
	choke cherry (<i>Prunus virginiana</i>)	native	10.0
	common wild rose (<i>Rosa woodsii</i>)	native	20.0
	green alder (<i>Alnus crispa</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffalobery (<i>Shepherdia argentea</i>)	native	3.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	30.0
Grasses (and Grass-like species)	alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.5
	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	30.0
	needle-and-thread (<i>Stipa comata</i>)	native	3.0
	quack grass (<i>Agropyron repens</i>)	disturbance	0.5
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	native	0.5
	sedge (<i>Carex spp.</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	20.0
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	60.0
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	artemisia (<i>Artemisia spp.</i>)	n/a	0.5
	broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	3.0
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	diffuse knapweed (<i>Centaurea diffusa</i>)	restricted	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5

Riparian Plant Information (OLD1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD1
Forbs (broad leaf plants)	spotted knapweed (<i>Centaurea maculosa</i>)	restricted	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.5
	western dock (<i>Rumex occidentalis</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD2
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	10.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	3.0
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	20.0
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	30.0
Grasses (and Grass-like species)	alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	10.0
	green needle grass (<i>Stipa viridula</i>)	native	10.0
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	rush (<i>Juncus spp.</i>)	native	0.5
	short-awned foxtail (<i>Alopecurus aequalis</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
Forbs (broad leaf plants)	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	artemisia (<i>Artemisia spp.</i>)	n/a	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	3.0
	Canada thistle (<i>Cirsium arvense</i>)	invasive	30.0
	cocklebur (<i>Xanthium strumarium</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	3.0
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	10.0
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	summer-cypress (<i>Kochia scoparia</i>)	introduced	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	10.0

Riparian Plant Information (OLD4)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ²
		OLD4	
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	50.0
	Manitoba maple (<i>Acer negundo</i>)	native	3.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	30.0
	choke cherry (<i>Prunus virginiana</i>)	native	20.0
	common caragana (<i>Caragana arborescens</i>)	native	10.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	red twinberry (<i>Lonicera utahensis</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.5
	bearded wheatgrass (<i>Agropyron subsecundum</i>)	native	3.0
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	20.0
	equitant-leaved rush (<i>Juncus ensifolius</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	60.0
	three-square rush (<i>Scirpus pungens</i>)	native	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	wild oat (<i>Avena fatua</i>)	disturbance	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	aster (<i>Aster spp.</i>)	n/a	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	3.0
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	10.0
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	3.0
	leafy spurge (<i>Euphorbia esula</i>)	invasive	30.0
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	silver sagebrush (<i>Artemisia cana</i>)	native	3.0

Riparian Plant Information (OLD4)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD4
Forbs (broad leaf plants)	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	10.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD5
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	10.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	20.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	flat-leaved willow (<i>Salix planifolia</i>)	native	0.5
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	30.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	3.0
	yellow willow (<i>Salix lutea</i>)	native	3.0
Grasses (and Grass-like species)	alkali cord grass (<i>Spartina gracilis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	3.0
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	3.0
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	10.0
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	20.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	3.0
	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
Forbs (broad leaf plants)	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	10.0
	common burdock (<i>Arctium minus</i>)	disturbance	3.0
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	native	0.5
	diffuse knapweed (<i>Centaurea diffusa</i>)	restricted	0.5
	dotted blazingstar (<i>Liatris punctata</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	3.0
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	3.0
	leafy spurge (<i>Euphorbia esula</i>)	invasive	20.0
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	Russian-thistle (<i>Salsola kali</i>)	disturbance	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.0

Riparian Plant Information (OLD7)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD7
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	40.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	20.0
	choke cherry (<i>Prunus virginiana</i>)	native	10.0
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	3.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	river alder (<i>Alnus tenuifolia</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	20.0
	saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	20.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
Grasses (and Grass-like species)	yellow willow (<i>Salix lutea</i>)	native	3.0
	alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	3.0
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	equitant-leaved rush (<i>Juncus ensifolius</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	40.0
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
	three-square rush (<i>Scirpus pungens</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	black medick (<i>Medicago lupulina</i>)	disturbance	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	3.0
	Canada thistle (<i>Cirsium arvense</i>)	invasive	10.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	diffuse knapweed (<i>Centaurea diffusa</i>)	restricted	10.0
	golden bean (<i>Thermopsis rhombifolia</i>)	native	20.0
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	40.0
	pale persicaria (<i>Polygonum lapathifolium</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	Philadelphia fleabane (<i>Erigeron philadelphicus</i>)	native	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	3.0
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	Russian knapweed (<i>Centaurea repens</i>)	invasive	3.0
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	smooth fleabane (<i>Erigeron glabellus</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD8)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² OLD8
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	50.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	green alder (<i>Alnus crispa</i>)	native	0.5
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	20.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	10.0
	water birch (<i>Betula occidentalis</i>)	native	3.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	knotted rush (<i>Juncus nodosus</i>)	native	0.5
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	20.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	10.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	3.0
Forbs (broad leaf plants)	black henbane (<i>Hyoscyamus niger</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	disturbance	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	0.5
	butter-and-eggs (<i>Linaria vulgaris</i>)	invasive	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	dog mustard (<i>Erucastrum gallicum</i>)	disturbance	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	native	0.5

Riparian Plant Information (OLD8)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD8
Forbs (broad leaf plants)	Russian knapweed (<i>Centaurea repens</i>)	invasive	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	poisonous	3.0
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	tufted vetch (<i>Vicia cracca</i>)	native	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	3.0
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	introduced	0.5
	white clover (<i>Trifolium repens</i>)	disturbance	0.5
	white prairie-clover (<i>Petalostemon candidum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD9)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD9
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	70.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	10.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	20.0
	choke cherry (<i>Prunus virginiana</i>)	native	20.0
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	skunkbush (<i>Rhus trilobata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
Grasses (and Grass-like species)	alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	3.0
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	3.0
	green needle grass (<i>Stipa viridula</i>)	native	10.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	sand grass (<i>Calamovilfa longifolia</i>)	native	3.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
Forbs (broad leaf plants)	asparagus (<i>Asparagus officinalis</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	10.0
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	cocklebur (<i>Xanthium strumarium</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	3.0
	leafy spurge (<i>Euphorbia esula</i>)	invasive	10.0
	northern willowherb (<i>Epilobium ciliatum</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD10)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ²
Trees	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
	balsam poplar (<i>Populus balsamifera</i>)	native	10.0
Shrubs	yellow willow (<i>Salix lutea</i>)	native	30.0
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	20.0
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
Grasses (and Grass-like species)	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	10.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	green needle grass (<i>Stipa viridula</i>)	native	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	3.0
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	short-awned foxtail (<i>Alopecurus aequalis</i>)	native	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	alpine rush (<i>Juncus alpinoarticulatus</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	native	0.5
Forbs (broad leaf plants)	Canada thistle (<i>Cirsium arvense</i>)	invasive	30.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	10.0
	silverweed (<i>Potentilla anserina</i>)	disturbance	10.0
	Canada goldenrod (<i>Solidago canadensis</i>)	native	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	3.0
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	summer-cypress (<i>Kochia scoparia</i>)	introduced	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	artemisia (<i>Artemisia spp.</i>)	n/a	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	cocklebur (<i>Xanthium strumarium</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5

Riparian Plant Information (OLD11)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ²
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	0.5

Riparian Plant Information (OLD11)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD11
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	Drummond's willow (<i>Salix drummondiana</i>)	native	0.5
	green alder (<i>Alnus crispa</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	shining willow (<i>Salix lucida</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	3.0
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	fowl manna grass (<i>Glyceria striata</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	native	3.0
	rush (<i>Juncus spp.</i>)	unknown	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	3.0
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
Forbs (broad leaf plants)	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	alpine goldenrod (<i>Solidago multiradiata</i>)	native	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bristly stickseed (<i>Lappula echinata</i>)	disturbance	0.5
	broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.5
	bull thistle (<i>Cirsium vulgare</i>)	invasive	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mare's-tail (<i>Hippuris vulgaris</i>)	native	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	poisonous	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	10.0
	mustard (<i>Brassica spp.</i>)	unknown	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5

Riparian Plant Information (OLD11)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD11
Forbs (broad leaf plants)	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	smooth fleabane (<i>Erigeron glabellus</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	wormseed mustard (<i>Erysimum cheiranthoides</i>)	disturbance	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	20.0

Riparian Plant Information (OLD12)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD12
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	3.0

Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	0.5
	Canada buffaloberry (<i>Shepherdia canadensis</i>)	native	0.5
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	20.0
	wild red raspberry (<i>Rubus idaeus</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5

Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	brome grass (<i>Bromus spp.</i>)	unknown	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	northern wheat grass (<i>Agropyron dasystachyum</i>)	native	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	rush (<i>Juncus spp.</i>)	unknown	0.5
	sedge (<i>Carex spp.</i>)	unknown	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wheat grass (<i>Agropyron spp.</i>)	unknown	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	3.0
	black henbane (<i>Hyoscyamus niger</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bristly stickseed (<i>Lappula echinata</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5

Riparian Plant Information (OLD12)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD12
Forbs (broad leaf plants)	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	poisonous	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	3.0
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	0.5
	marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie onion (<i>Allium textile</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	silvery perennial lupine (<i>Lupinus argenteus</i>)	native	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	10.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	wormseed mustard (<i>Erysimum cheiranthoides</i>)	disturbance	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	10.0

Riparian Plant Information (OLD13)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD13
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	30.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	10.0
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	quack grass (<i>Agropyron repens</i>)	disturbance	30.0
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	great bulrush (<i>Scirpus acutus</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5

Riparian Plant Information (OLD13)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD13
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	fringed loosestrife (<i>Lythymachia ciliata</i>)	native	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	graceful cinquefoil (<i>Potentilla gracilis</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	3.0
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	sweet clover (<i>Melilotus spp.</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	10.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5

Riparian Plant Information (OLD14)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD14
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	20.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	30.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	common wild rose (<i>Rosa woodsi</i>)	native	3.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	20.0
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	3.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	3.0
	yellow willow (<i>Salix lutea</i>)	native	3.0
Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	great bulrush (<i>Scirpus acutus</i>)	native	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0

Riparian Plant Information (OLD14)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD14
Grasses (and Grass-like species)	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	20.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0

Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	10.0
	black henbane (<i>Hyoscyamus niger</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bristly stickseed (<i>Lappula echinata</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	convolvulus spp. (<i>convolvulus spp</i>)	unknown	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	fringed loosestrife (<i>Lysimachia ciliata</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	graceful cinquefoil (<i>Potentilla gracilis</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	polygonum (<i>Polygonum spp.</i>)	unknown	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	10.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD15)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD15
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	40.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	20.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	30.0
	prickly rose (<i>Rosa acicularis</i>)	native	3.0
	sandbar willow (<i>Salix exigua</i>)	native	10.0

Riparian Plant Information (OLD15)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD15
Shrubs	Saskatoon (<i>Amelanchier alnifolia</i>)	native	30.0
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	3.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
Grasses (and Grass-like species)	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
	western wheat grass (<i>Agropyron smithii</i>)	native	20.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	10.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	sedge (<i>Carex spp.</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	blue grama (<i>Bouteloua gracilis</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.5
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	cultivated barley (<i>Hordeum vulgare</i>)	disturbance	0.5
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	unknown graminoid	unknown	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	ball mustard (<i>Neslia paniculata</i>)	disturbance	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common annual sunflower (<i>Helianthus annuus</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	erigeron (<i>Erigeron spp.</i>)	native	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	milk vetch (<i>Astragalus spp.</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	prickly-pear (<i>Opuntia polyacantha</i>)	native	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	3.0
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	white cockle (<i>Silene pratensis</i>)	invasive	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	10.0
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD16)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD16
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	Manitoba maple (<i>Acer negundo</i>)	native	0.5
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	0.5
	plains cottonwood (<i>Populus deltoides</i>)	native	20.0
	Tree (<i>Tree</i>)	unknown	0.5
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	20.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	golden currant (<i>Ribes aureum</i>)	native	3.0
	green alder (<i>Alnus crispa</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	3.0
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	30.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	Shrub (<i>Shrub</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	willow (<i>Salix spp.</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	3.0
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	fowl manna grass (<i>Glyceria striata</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	northern wheat grass (<i>Agropyron dasystachyum</i>)	native	0.5
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	unknown	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	asparagus (<i>Asparagus officinalis</i>)	introduced	0.5
	ball mustard (<i>Neslia paniculata</i>)	disturbance	0.5
	bindweed (<i>Convolvulus spp.</i>)	unknown	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	butte-primrose (<i>Oenothera caespitosa</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common annual sunflower (<i>Helianthus annuus</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	3.0
	Forb (<i>Forb</i>)	unknown	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	hoary cress (<i>Cardaria chalapensis</i>)	invasive	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	lamb-quarters (<i>Chenopodium album</i>)	disturbance	0.5

Riparian Plant Information (OLD16)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD16
Forbs (broad leaf plants)	leafy spurge (<i>Euphorbia esula</i>)	invasive	3.0
	marsh ragwort (<i>Senecio congestus</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	Russian-thistle (<i>Salsola kali</i>)	disturbance	3.0
	scarlet mallow (<i>Sphaeralcea coccinea</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tall blue lettuce (<i>Lactuca biennis</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	10.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	wormseed mustard (<i>Erysimum cheiranthoides</i>)	disturbance	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.0

Riparian Plant Information (OLD17)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD17
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	3.0
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	northern wheat grass (<i>Agropyron dasystachyum</i>)	native	3.0
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	native	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	unknown	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5

Riparian Plant Information (OLD17)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD17
Forbs (broad leaf plants)	butter-and-eggs (<i>Linaria vulgaris</i>)	invasive	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	native	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	poisonous	0.5
	erigeron (<i>Erigeron</i> spp.)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	3.0
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	goldenrod (<i>Solidago</i> spp.)	unknown	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	Russian knapweed (<i>Centaurea repens</i>)	invasive	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tufted vetch (<i>Vicia cracca</i>)	native	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	wormseed mustard (<i>Erysimum cheiranthoides</i>)	disturbance	3.0
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5
	water parsnip (<i>Sium suave</i>)	native	0.5

Riparian Plant Information (OLD18)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD18
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	50.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	green alder (<i>Alnus crispa</i>)	native	0.5
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	20.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	10.0
	water birch (<i>Betula occidentalis</i>)	native	3.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5

Riparian Plant Information (OLD18)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² OLD18
Grasses (and Grass-like species)	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	knotted rush (<i>Juncus nodosus</i>)	native	0.5
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	20.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	10.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	3.0
Forbs (broad leaf plants)	black henbane (<i>Hyoscyamus niger</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	0.5
	butter-and-eggs (<i>Linaria vulgaris</i>)	invasive	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	dog mustard (<i>Erucastrum gallicum</i>)	disturbance	0.5
	Forb (Forb)	unknown	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	Russian knapweed (<i>Centaurea repens</i>)	invasive	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	3.0
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	tufted vetch (<i>Vicia cracca</i>)	introduced	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	3.0
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.5
	white clover (<i>Trifolium repens</i>)	disturbance	0.5
	white prairie-clover (<i>Petalostemon candidum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD19)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD19
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	3.0
	plains cottonwood (<i>Populus deltoides</i>)	native	10.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	3.0
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	20.0
	great bulrush (<i>Scirpus acutus</i>)	native	0.5
	hairy wild rye (<i>Elymus innovatus</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	native	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	introduced	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	3.0
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	native	10.0
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common knotweed (<i>Polygonum arenastrum</i>)	disturbance	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	native	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	3.0
	marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	polygonum (<i>Polygonum spp.</i>)	unknown	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	red-root pigweed (<i>Amaranthus retroflexus</i>)	disturbance	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	stinkweed (<i>Thlaspi arvensis</i>)	disturbance	0.5
	western water-horehound (<i>Lycopus asper</i>)	native	3.0
	white clover (<i>Trifolium repens</i>)	disturbance	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (OLD20)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² OLD20
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
Shrubs	basket willow (<i>Salix petiolaris</i>)	native	0.5
	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	3.0
	sandbar willow (<i>Salix exigua</i>)	native	40.0
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	willow (<i>Salix spp.</i>)	native	0.5
Grasses (and Grass-like species)	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	3.0
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	3.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	0.5
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	20.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	20.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common annual sunflower (<i>Helianthus annuus</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	3.0
	mountain wild parsnip (<i>Lomatium dissectum</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	Philadelphia fleabane (<i>Erigeron philadelphicus</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	sneezeweed (<i>Helenium autumnale</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	water smartweed (<i>Polygonum amphibium</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5

Riparian Plant Information (OLD20)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD20
Forbs (broad leaf plants)	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	10.0

Riparian Plant Information (OLD21)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD21
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0

Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	10.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	30.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	green alder (<i>Alnus crispa</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	3.0
	round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	shining willow (<i>Salix lucida</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	3.0

Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	blue grama (<i>Bouteloua gracilis</i>)	native	3.0
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	10.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	unknown	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	20.0

Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	asparagus (<i>Asparagus officinalis</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	broad-leaved toad-flax (<i>Linaria dalmatica</i>)	invasive	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	fringed loosestrife (<i>Lysimachia ciliata</i>)	native	0.5

Riparian Plant Information (OLD21)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD21
Forbs (broad leaf plants)	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	knotweed (<i>Polygonum aviculare</i>)	unknown	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	10.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	10.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5

Riparian Plant Information (OLD22)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD22
Trees	aspen (<i>Populus tremuloides</i>)	native	0.5
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	0.5
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	20.0
	great bulrush (<i>Scirpus acutus</i>)	native	0.5
	green foxtail (<i>Setaria viridis</i>)	disturbance	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	10.0
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	native	0.5
	amaranthus (<i>Amaranthus spp.</i>)	unknown	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	cinquefoil (<i>Potentilla spp.</i>)	unknown	0.5
	cocklebur (<i>Xanthium strumarium</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	dock; sorrel (<i>Rumex spp.</i>)	unknown	0.5

Riparian Plant Information (OLD22)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	OLD22
Forbs (broad leaf plants)	false ragweed (<i>Iva xanthifolia</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	Forb (<i>Forb</i>)	unknown	0.5
	gunweed (<i>Grindelia squarrosa</i>)	native	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	10.0
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	prickly annual sow-thistle (<i>Sonchus asper</i>)	native	0.5
	Russian knapweed (<i>Centaurea repens</i>)	invasive	0.5
	Russian-thistle (<i>Salsola kali</i>)	disturbance	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	sneezeweed (<i>Helenium autumnale</i>)	native	3.0
	tufted white prairie aster (<i>Aster ericoides</i>)	native	0.5
	western water-horehound (<i>Lycopus asper</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5

Summary of Canopy Cover of Disturbance Species by AENV Reach - SSRB 2004

					Disturbance-Caused Undesirable Species		
						Polygon Area in Acres x % Canopy Cover	Polygon Area in Hectares x % Canopy Cover
AENV Reach	Polygon ID Number	Polygon Name	Size (acres)	Size (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)
OM-10	200110162	OLD10	3.74	1.51	0.5	1.87	0.76
	200410058	OLD11	53.29	21.57	0.2	10.66	4.31
	200410037	OLD12	7	2.83	0.2	1.40	0.57
	Reach Total:		64.0	25.9		13.9	5.6
	Reach Average:		21.3	8.6		4.6	1.9
OM-09	200410040	CRW1	73.96	29.93	0.2	14.79	5.99
	200410064	CRW2	21.95	8.88	0.8	17.56	7.10
	Reach Total:		95.9	38.8		32.4	13.1
Reach Average:		48.0	19.4		16.2	6.5	
OM-08	200410039	CAT1	32.76	13.26	0.1	3.28	1.33
	200410060	CAT2	7.63	3.09	0.3	2.29	0.93
	Reach Total:		40.4	16.4		5.6	2.3
Reach Average:		20.2	8.2		2.8	1.1	
OM-07	200410056	OLD17	62.36	25.24	0.5	31.18	12.62
	200410052	OLD18	186.91	75.64	0.6	112.15	45.38
	Reach Total:		249.3	100.9		143.3	58.0
Reach Average:		124.6	50.4		71.7	29.0	
OM-05	200110149	OLD1	28.16	11.4	0.6	16.90	6.84
	200410055	OLD15	11.21	4.54	0.5	5.61	2.27
	200410066	OLD21	238.61	96.56	0.5	119.31	48.28
Reach Total:		278.0	112.5		141.8	57.4	
Reach Average:		92.7	37.5		47.3	19.1	
OM-04	200110104	OLD2	35.79	14.48	0.5	17.90	7.24
	200410042	OLD14	219.51	88.83	0.5	109.76	44.42
	200410057	OLD13	1.53	0.62	0.7	1.07	0.43
Reach Total:		256.8	103.9		128.7	52.1	
Reach Average:		85.6	34.6		42.9	17.4	
OM-03	200110106	OLD5	197.84	80.06	0.4	79.14	32.02
	Reach Total:		197.8	80.1		79.1	32.0
	Reach Average:		197.8	80.1		79.1	32.0
OM-02	200110150	OLD4	20.36	8.24	0.6	12.22	4.94
	200110107	OLD7	9.84	3.98	0.4	3.94	1.59
	200110108	OLD8	21.18	8.57	0.5	10.59	4.29
	200110123	OLD9	12.23	4.95	0.4	4.89	1.98
	200410043	OLD20	20.04	8.11	0.5	10.02	4.06
	200410051	OLD16	8.27	3.35	0.6	4.96	2.01
Reach Total:		91.9	37.2		46.6	18.9	
Reach Average:		15.3	6.2		7.8	3.1	
OM-01	200410053	OLD19	1.27	0.51	0.3	0.38	0.15
	200410090	OLD22	13.84	5.6	0.3	4.15	1.68
	Reach Total:		15.1	6.1		4.5	1.8
Reach Average:		7.6	3.1		2.3	0.9	
Overall total			1289.28	521.75		595.98	241.18
Overall avg			53.7	21.7		24.8	10.0
Overall %						46.2%	46.2%

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Bladder Campion				Blueweed			
			Acres	Polygon Size		Constancy* = as a decimal	21% Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover %	25% Density Distribution	Area Occupied Hectares	Constancy* = as a decimal	25% Density Distribution
OM-10	200110162 OLD10			3.74	1.51 Yes	0		0.0	0		0.0	0	
	200410058 OLD11			53.29	21.57 Yes	0		0.0	0.005	2	0.3	0.005	0.1
	200410037 OLD12			7	2.83 Yes	0		0.0	0		0.0	0	
	Reach Total:			64.03	25.91			0.00			0.27		0.11
	Reach Average:			21.34	8.64			0.00			0.09		0.04
OM-09	200410064 CRW2			21.95	8.88 Yes	0		0.0	0.005	6	0.1	0.005	0.0
	200410040 CRW1			73.96	29.93 Yes	0		0.0	0.005	2	0.4	0.005	0.1
	Reach Total:			95.91	38.81			0.00			0.48		0.19
	Reach Average:			47.96	19.41			0.00			0.24		0.10
	200410039 CAT1			32.76	13.26 Yes	0		0.0	0		0.0	0	
OM-08	200410060 CAT2			7.63	3.09 Yes	0		0.0	0		0.0	0	
	Reach Total:			40.39	16.35			0.00			0.00		0.00
	Reach Average:			20.20	8.18			0.00			0.00		0.00
	200410052 OLD18			186.91	75.64 Yes	0.005	2	0.9	0.03	9	5.6	0.03	2.3
	200410056 OLD17			62.36	25.24 Yes	0.005	2	0.3	0.005	8	0.3	0.005	0.1
OM-07	Reach Total:			249.27	100.88			1.25			5.92		2.40
	Reach Average:			124.64	50.44			0.62			2.96		1.20
	200410055 OLD15			11.21	4.54 Yes	0		0.0	0		0.0	0	
	200110149 OLD1			28.16	11.4 Yes	0		0.0			0.0		0.0
	200410066 OLD21			238.61	96.56 Yes	0.005	1	1.2	0.005	2	1.2	0.005	0.5
OM-05	Reach Total:			277.98	112.50			1.19			1.19		0.48
	Reach Average:			92.66	37.50			0.40			0.40		0.16

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Bladder Campion				Blueweed			
			Acres	Hectares		Constancy* = Canopy Cover % as a decimal	21% Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	25% Density Distribution	Area Occupied Acres	Hectares	
		200110162 OLD10	3.74	1.51	Yes	0		0.0	0		0.0	0.0	
OM-04		200110104 OLD2	35.79	14.48	Yes	0		0.0	0		0.0	0.0	
		200410042 OLD14	219.51	88.83	Yes	0		0.0	0		0.0	0.0	
		200410057 OLD13	1.53	0.62	Yes	0.005	5	0.0	0		0.0	0.0	
		Reach Total:	256.83	103.93				0.01			0.00	0.00	
		Reach Average:	85.61	34.64				0.00			0.00	0.00	
OM-03		200110106 OLD5	197.84	80.06	Yes	0		0.0	0		0.0	0.0	
		Reach Total:	197.84	80.06				0.00			0.00	0.00	
		Reach Average:	197.84	80.06				0.00			0.00	0.00	
OM-02		200410051 OLD16	8.27	3.35	Yes	0		0.0	0		0.0	0.0	
		200410043 OLD20	20.04	8.11	Yes	0		0.0	0		0.0	0.0	
		200110107 OLD7	9.84	3.98	Yes	0		0.0	0		0.0	0.0	
		200110108 OLD8	21.18	8.57	Yes	0		0.0	0		0.0	0.0	
		200110123 OLD9	12.23	4.95	Yes	0		0.0	0		0.0	0.0	
		200110150 OLD4	20.36	8.24	Yes	0		0.0	0		0.0	0.0	
		Reach Total:	91.92	37.20				0.00			0.00	0.00	
OM-01		Reach Average:	15.32	6.20				0.00			0.00	0.00	
		200410053 OLD19	1.27	0.51	Yes	0.005	2	0.0	0		0.0	0.0	
		200410090 OLD22	13.84	5.6	Yes	0		0.0	0		0.0	0.0	
		Reach Total:	15.11	6.11				0.01			0.00	0.00	
		Reach Average:	7.56	3.06				0.00			0.00	0.00	
Total Area % of total area			1289.28	521.75				2.45			7.86	3.18	
								0.2%			0.6%	0.6%	

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24			Canada Thistle			Caragana			Common Hounds tongue		
			Polygon Size	Are noxious weeds present?	Acres	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares
OM-10	200410162	OLD10	3.74	1.51 Yes		0.005	6	0.02	0	0.00	0.00	0.005	2	0.02
	200410058	OLD11	53.29	21.57 Yes		0.03	6	1.60	0	0.00	0.00	0.005	5	0.27
	200410037	OLD12	7	2.83 Yes		0.005	6	0.04	0	0.00	0.00	0.005	1	0.04
	Reach Total:		64.03	25.91				1.65		0.00	0.00			0.32
	Reach Average:		21.34	8.64				0.55		0.00	0.00			0.11
OM-09	200410064	CRW2	21.95	8.88 Yes		0.005	8	0.11	0.5	1	10.98	0.005	2	0.11
	200410040	CRW1	73.96	29.93 Yes		0.03	8	2.22	0	0.00	0.00	0.005	1	0.37
	Reach Total:		95.91	38.81				2.33		0.00	4.44			0.48
	Reach Average:		47.96	19.41				1.16		5.49	2.22			0.24
	Reach Average:		20.20	8.18				0.20		0.00	0.00			0.02
OM-08	200410039	CAT1	32.76	13.26 Yes		0.005	6	0.16	0	0.00	0.00	0	0	0.00
	200410060	CAT2	7.63	3.09 Yes		0.03	10	0.23	0	0.00	0.00	0.005	4	0.04
	Reach Total:		40.39	16.35				0.39		0.00	0.00			0.04
	Reach Average:		20.20	8.18				0.20		0.00	0.00			0.02
	Reach Average:		20.20	8.18				0.20		0.00	0.00			0.02
OM-07	200410052	OLD18	186.91	75.64 Yes		0.005	5	0.93	0	0.00	0.00	0.005	5	0.93
	200410056	OLD17	62.36	25.24 Yes		0.005	8	0.31	0	0.00	0.00	0.005	2	0.31
	Reach Total:		249.27	100.88				1.25		0.00	0.00			1.25
	Reach Average:		124.64	50.44				0.62		0.00	0.00			0.62
	Reach Average:		124.64	50.44				0.62		0.00	0.00			0.62
OM-05	200410055	OLD15	11.21	4.54 Yes		0.005	5	0.06	0	0.00	0.00	0.005	2	0.06
	200410149	OLD1	28.16	11.4 Yes		0.005	10	0.14	0	0.00	0.00	0.005	2	0.14
	200410066	OLD21	238.61	96.56 Yes		0.03	10	7.16	0	0.00	0.00	0.005	8	1.19
	Reach Total:		277.98	112.50				7.36		0.00	0.00			1.39
	Reach Average:		92.66	37.50				2.45		0.00	0.00			0.46

*Constancy is the number of times the species was observed in the Oldman River Project area

Total # polygons = 24						Canada Thistle			Caraganna			Common Hounds tongue		
AENV Reach	ID No.	Polygon Name	Acres	Polygon Size	Are noxious weeds present?	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares
	200110162	OLD10	3.74	1.51	Yes	0.005	6	0.02	0.01	0	0.00	0.005	2	0.02
OM-04	200110104	OLD2	35.79	14.48	Yes	0.3	9	10.74	4.34	0	0.00	0.005	1	0.18
	200410042	OLD14	219.51	88.83	Yes	0.005	5	1.10	0.44	0	0.00	0.005	8	1.10
	200410057	OLD13	1.53	0.62	Yes	0.005	5	0.01	0.00	0	0.00	0.005	2	0.01
	Reach Total:		256.83	103.93				11.84	4.79		0.00	0.00		1.28
	Reach Average:		85.61	34.64				3.95	1.60		0.00	0.00		0.43
OM-03	200110106	OLD5	197.84	80.06	Yes	0.1	9	19.78	8.01	0	0.00	0.03	8	5.94
	Reach Total:		197.84	80.06				19.78	8.01		0.00	0.00		5.94
	Reach Average:		197.84	80.06				19.78	8.01		0.00	0.00		5.94
	200410051	OLD16	8.27	3.35	Yes	0.005	8	0.04	0.02	0	0.00	0.005	2	0.04
	200410043	OLD20	20.04	8.11	Yes	0.005	5	0.10	0.04	0	0.00	0	0	0.00
OM-02	200110107	OLD7	9.84	3.98	Yes	0.1	8	0.98	0.40	0	0.00	0.005	4	0.05
	200110108	OLD8	21.18	8.57	Yes	0.1	9	2.12	0.86	0	0.00	0.005	4	0.11
	200110123	OLD9	12.23	4.95	Yes	0.03	6	0.37	0.15	0	0.00	0.03	8	0.37
	200110150	OLD4	20.36	8.24	Yes	0.03	8	0.61	0.25	0	0.00	0.1	7	2.04
	Reach Total:		91.92	37.20				4.22	1.71		0.00	0.00		2.60
Reach Average:		15.32	6.20				0.70	0.28		0.00	0.00		0.43	
OM-01	200410053	OLD19	1.27	0.51	Yes	0.005	5	0.01	0.00	0	0.00	0	0	0.00
	200410090	OLD22	13.84	5.6	Yes	0.005	5	0.07	0.03	0	0.00	0	0	0.00
	Reach Total:		15.11	6.11				0.08	0.03		0.00	0.00		0.00
	Reach Average:		7.56	3.06				0.04	0.02		0.00	0.00		0.00
	Total Area % of total area		1289.28	521.75				48.90	19.79		10.98	4.44		13.29
							3.8%	3.8%		0.9%	0.9%		1.0%	

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Common Tansy			Dalmatian Toadflax			Diffuse Knapweed		
			Polygon Size	Acres		Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares
OM-10	200110162	OLD10	3.74	1.51	Yes	0	0	0.00	0.005	5	0.0	0	0.0	0.0
	200410058	OLD11	53.29	21.57	Yes	0	0	0.00	0	0	0.0	0	0.0	0.0
	200410037	OLD12	7	2.83	Yes	0	0	0.00	0	0	0.0	0	0.0	0.0
	Reach Total:		64.03	25.91				0.00			0.02		0.00	0.00
	Reach Average:		21.34	8.64				0.00			0.01		0.00	0.00
OM-09	200410064	CRW2	21.95	8.88	Yes	0.005	6	0.11	0	0	0.0	0	0.0	0.0
	200410040	CRW1	73.96	29.93	Yes	0	0	0.00	0.005	3	0.4	0	0.0	0.0
	Reach Total:		95.91	38.81				0.11			0.37		0.00	0.00
	Reach Average:		47.96	19.41				0.05			0.18		0.00	0.00
	200410039	CAT1	32.76	13.26	Yes	0	0	0.00	0	0	0.0	0	0.0	0.0
OM-08	200410060	CAT2	7.63	3.09	Yes	0	0	0.00	0	0	0.0	0	0.0	0.0
	Reach Total:		40.39	16.35				0.00			0.00		0.00	0.00
	Reach Average:		20.20	8.18				0.00			0.00		0.00	0.00
	200410052	OLD18	186.91	75.64	Yes	0	0	0.00	0.005	8	0.9	0	0.0	0.0
	200410056	OLD17	62.36	25.24	Yes	0	0	0.00	0.005	1	0.3	0	0.0	0.0
OM-07	Reach Total:		249.27	100.88				0.00			1.25		0.00	0.00
	Reach Average:		124.64	50.44				0.00			0.62		0.00	0.00
	200410055	OLD15	11.21	4.54	Yes	0	0	0.00	0	0	0.0	0	0.0	0.0
	200110149	OLD1	28.16	11.4	Yes			0.00	0.005	8	0.1	0.005	4	0.1
	200410066	OLD21	238.61	96.56	Yes	0	0	0.00	0.005	2	1.2	0	0.0	0.0
OM-05	Reach Total:		277.98	112.50				0.00			1.33		0.14	0.06
	Reach Average:		92.66	37.50				0.00			0.44		0.05	0.02

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Common Tansy			Dalmatian Toadflax			Diffuse Knapweed		
			Polygon Size	Hectares		Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares
	200110162	OLD10	3.74	1.51	Yes	0		0.00	0.005	5	0.0	0		0.0
OM-04	200110104	OLD2	35.79	14.48	Yes	0		0.00	0		0.0	0		0.0
	200410042	OLD14	219.51	88.83	Yes	0		0.00	0		0.0	0		0.0
	200410057	OLD13	1.53	0.62	Yes	0		0.00	0		0.0	0		0.0
		Reach Total:	256.83	103.93				0.00			0.00			0.00
		Reach Average:	85.61	34.64				0.00			0.00			0.00
OM-03	200110106	OLD5	197.84	80.06	Yes	0		0.00	0		0.0	0.005	3	1.0
		Reach Total:	197.84	80.06				0.00			0.00			0.40
		Reach Average:	197.84	80.06				0.00			0.00			0.40
	200410051	OLD16	8.27	3.35	Yes	0		0.00	0		0.0	0		0.0
	200410043	OLD20	20.04	8.11	Yes	0		0.00	0		0.0	0		0.0
OM-02	200110107	OLD7	9.84	3.98	Yes	0		0.00	0		0.0	0.1	9	1.0
	200110108	OLD8	21.18	8.57	Yes	0		0.00	0		0.0	0.1	9	2.1
	200110123	OLD9	12.23	4.95	Yes	0		0.00	0		0.0	0		0.0
	200110150	OLD4	20.36	8.24	Yes	0		0.00	0		0.0	0		0.0
		Reach Total:	91.92	37.20				0.00			0.00			1.26
		Reach Average:	15.32	6.20				0.00			0.00			0.52
OM-01	200410053	OLD19	1.27	0.51	Yes	0		0.00	0		0.0	0		0.0
	200410090	OLD22	13.84	5.6	Yes	0		0.00	0		0.0	0		0.0
		Reach Total:	15.11	6.11				0.00			0.00			0.00
		Reach Average:	7.56	3.06				0.00			0.00			0.00
	Total Area % of total area		1289.28	521.75				0.11 0.01%			2.97 0.2%			4.23 0.3%

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	Total # polygons = 24					Leafy Spurge				Oxeye Daisy				Perennial Sowthistle				
	ID No.	Polygon Name	Polygon Size	Acres	Hectares	Are noxious weeds present(?)	Constancy* = Canopy Cover % as a decimal	58% Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	58% Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	79% Density Distribution	Area Occupied Hectares	Acres
OM-10	200110162	OLD10	3.74		1.51	Yes	0.005	6	0.02	0.01	0.005	2	0.02	0.01	0.005	5	0.02	0.01
	200410058	OLD11	53.29		21.57	Yes	0.1	11	5.33	2.16	0.005	4	0.27	0.11	0.005	2	0.27	0.11
	200410037	OLD12	7		2.83	Yes	0.005	6	0.04	0.01	0.005	8	0.04	0.01	0.005	5	0.04	0.01
	Reach Total:		64.03		25.91				5.38	2.18				0.32	0.13		0.32	0.13
	Reach Average:		21.34		8.64				1.79	0.73				0.11	0.04		0.11	0.04
OM-09	200410064	CRW2	21.95		8.88	Yes	0		0.00	0.00	0.03	9	0.66	0.27	0		0.00	0.00
	200410040	CRW1	73.96		29.93	Yes	0		0.00	0.00	0.005	3	0.37	0.15	0		0.00	0.00
	Reach Total:		95.91		38.81				0.00	0.00				1.03	0.42		0.00	0.00
	Reach Average:		47.96		19.41				0.00	0.00				0.51	0.21		0.00	0.00
	200410039	CAT1	32.76		13.26	Yes	0		0.00	0.00	0.005	6	0.16	0.07	0		0.00	0.00
OM-08	200410060	CAT2	7.63		3.09	Yes	0		0.00	0.00	0.03	9	0.23	0.09	0.005	2	0.04	0.02
	Reach Total:		40.39		16.35				0.00	0.00				0.39	0.16		0.04	0.02
	Reach Average:		20.20		8.18				0.00	0.00				0.20	0.08		0.02	0.01
	200410052	OLD18	186.91		75.64	Yes	0.005	8	0.93	0.38	0.005	8	0.93	0.38	0.005	5	0.93	0.38
	200410056	OLD17	62.36		25.24	Yes	0.005	2	0.31	0.13	0.005	7	0.31	0.13	0.005	2	0.31	0.13
OM-07	Reach Total:		249.27		100.88				1.25	0.50				1.25	0.50		1.25	0.50
	Reach Average:		124.64		50.44				0.62	0.25				0.62	0.25		0.62	0.25
	200410055	OLD15	11.21		4.54	Yes	0		0.00	0.00	0.005	1	0.06	0.02	0.005	2	0.06	0.02
	200110149	OLD1	28.16		11.4	Yes	0		0.00	0.00	0.005	5	0.14	0.06	0.005	5	0.14	0.06
	200410066	OLD21	238.61		96.56	Yes	0		0.00	0.00	0.005	6	1.19	0.48	0.005	2	1.19	0.48
OM-05	Reach Total:		277.98		112.50				0.00	0.00				1.39	0.56		1.39	0.56
	Reach Average:		92.66		37.50				0.00	0.00				0.46	0.19		0.46	0.19

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Leafy Spurge			Oxeye Daisy			Perennial Sowthistle					
			Polygon Size	Acres		Hectares	Constancy* = Canopy Cover % as a decimal	58% Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	58% Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	79% Density Distribution	Area Occupied Hectares		
	200110162	OLD10	3.74	1.51	Yes	0.005	6	0.02	0.01	0.005	2	0.02	0.01	0.005	5	0.02	0.01
OM-04	200110104	OLD2	35.79	14.48	Yes	0		0.00	0.00			0.00	0.00	0.005	4	0.18	0.07
	200410042	OLD14	219.51	88.83	Yes	0		0.00	0.00	0.005	7	1.10	0.44	0.005	5	1.10	0.44
	200410057	OLD13	1.53	0.62	Yes	0		0.00	0.00	0		0.00	0.00	0.005	5	0.01	0.00
	Reach Total:		256.83	103.93				0.00	0.00			1.10	0.44			1.28	0.52
	Reach Average:		85.61	34.64				0.00	0.00			0.37	0.15			0.43	0.17
OM-03	200110106	OLD5	197.84	80.06	Yes	0.2	10	39.57	16.01	0		0.00	0.00	0		0.00	0.00
	Reach Total:		197.84	80.06				39.57	16.01			0.00	0.00			0.00	0.00
	Reach Average:		197.84	80.06				39.57	16.01			0.00	0.00			0.00	0.00
	200410051	OLD16	8.27	3.35	Yes	0.03	8	0.25	0.10	0.005	1	0.04	0.02	0.005	2	0.04	0.02
	200410043	OLD20	20.04	8.11	Yes	0.03	13	0.60	0.24	0		0.00	0.00	0.005	5	0.10	0.04
OM-02	200110107	OLD7	9.84	3.98	Yes	0.4	11	3.94	1.59	0		0.00	0.00	0.005	4	0.05	0.02
	200110108	OLD8	21.18	8.57	Yes	0.4	11	8.47	3.43	0		0.00	0.00	0.005	4	0.11	0.04
	200110123	OLD9	12.23	4.95	Yes	0.1	9	1.22	0.50	0		0.00	0.00	0.005	5	0.06	0.02
	200110150	OLD4	20.36	8.24	Yes	0.3	10	6.11	2.47	0		0.00	0.00	0.005	5	0.10	0.04
	Reach Total:		91.92	37.20				20.59	8.33			0.04	0.02			0.46	0.19
OM-01	Reach Average:		15.32	6.20				3.43	1.39			0.01	0.00			0.08	0.03
	200410053	OLD19	1.27	0.51	Yes	0.03	8	0.04	0.02	0		0.00	0.00	0.005	5	0.01	0.00
	200410090	OLD22	13.84	5.6	Yes	0.1	11	1.38	0.56	0		0.00	0.00	0		0.00	0.00
	Reach Total:		15.11	6.11				1.42	0.58			0.00	0.00			0.01	0.00
	Reach Average:		7.56	3.06				0.71	0.29			0.00	0.00			0.00	0.00
Total Area % of total area			1289.28	521.75			68.21	27.60	5.3%		5.52	2.23	0.4%		4.74	1.92	0.4%

*Constancy is the number of times the species was observed in the Oldman River Project area

Total # polygons = 24				Russian Knapweed				Scentless Chamomile				Spotted Knapweed									
AENV Reach	ID No.	Polygon Name	Polygon Size	Acres	Hectares	Are noxious weeds present?	Constancy* Canopy Cover % as a decimal	21% Density Distribution	Area Occupied	Acres	Hectares	Constancy* = Canopy Cover % as a decimal	4% Density Distribution	Area Occupied	Acres	Hectares	Constancy* = Canopy Cover % as a decimal	13% Density Distribution	Area Occupied	Acres	Hectares
OM-10	200110162	OLD10	3.74		1.51	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
	200410058	OLD11	53.29		21.57	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
	200410037	OLD12	7		2.83	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
		Reach Total:	64.03		25.91				0.00		0.00				0.00		0.00		0.00		0.00
		Reach Average:	21.34		8.64				0.00		0.00				0.00		0.00		0.00		0.00
OM-09	200410064	CRW2	21.95		8.88	Yes	0		0.00		0.00	0.005	4	0.11		0.04	0		0.00		0.00
	200410040	CRW1	73.96		29.93	Yes	0		0.00		0.00	0		0.11		0.04	0		0.00		0.00
		Reach Total:	95.91		38.81				0.00		0.00			0.05		0.02			0.00		0.00
		Reach Average:	47.96		19.41				0.00		0.00								0.00		0.00
OM-08	200410039	CAT1	32.76		13.26	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
	200410060	CAT2	7.63		3.09	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
		Reach Total:	40.39		16.35				0.00		0.00				0.00		0.00		0.00		0.00
		Reach Average:	20.20		8.18				0.00		0.00				0.00		0.00		0.00		0.00
OM-07	200410052	OLD18	186.91		75.64	Yes	0.005	5	0.93		0.38	0		0.00		0.00	0		0.00		0.00
	200410056	OLD17	62.36		25.24	Yes	0.005	5	0.31		0.13	0		0.00		0.00	0		0.00		0.00
		Reach Total:	249.27		100.88				1.25		0.50				0.00		0.00		0.00		0.00
		Reach Average:	124.64		50.44				0.62		0.25				0.00		0.00		0.00		0.00
OM-05	200410055	OLD15	11.21		4.54	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
	200110149	OLD1	28.16		11.4	Yes	0		0.00		0.00	0		0.00		0.00	0.005	1	0.06		0.14
	200410066	OLD21	238.61		96.56	Yes	0		0.00		0.00	0		0.00		0.00	0		0.00		0.00
		Reach Total:	277.98		112.50				0.00		0.00				0.00		0.00		0.14		0.06
		Reach Average:	92.66		37.50				0.00		0.00				0.00		0.00		0.05		0.02

*Constancy is the number of times the species was observed in the Oldman River Project area

Total # polygons = 24					Russian Knapweed			Scentless Chamomile			Spotted Knapweed				
AENV Reach	ID No.	Polygon Name	Acres	Hectares	Are noxious weeds present?	Constancy* Canopy Cover % as a decimal	21% Density Distribution	Area Occupied Acres Hectares	Constancy* = Canopy Cover % as a decimal	4% Density Distribution	Area Occupied Acres Hectares	Constancy* = Canopy Cover % as a decimal	13% Density Distribution	Area Occupied Acres Hectares	
	200110162 OLD10				3.74	1.51	Yes		0	0.00	0.00	0	0.00	0.00	
OM-04	200110104	OLD2	35.79	14.48	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	200410042	OLD14	219.51	88.83	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	200410057	OLD13	1.53	0.62	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	Reach Total:		256.83	103.93				0.00	0.00	0.00	0.00	0.00	0		0.00
	Reach Average:		85.61	34.64				0.00	0.00	0.00	0.00	0.00	0		0.00
OM-03	200110106	OLD5	197.84	80.06	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	Reach Total:		197.84	80.06				0.00	0.00	0.00	0.00	0.00	0		0.00
	Reach Average:		197.84	80.06				0.00	0.00	0.00	0.00	0.00	0		0.00
	200410051	OLD16	8.27	3.35	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	200410043	OLD20	20.04	8.11	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
OM-02	200110107	OLD7	9.84	3.98	Yes	0.03	8	0.30	0.12	0.00	0.00	0	0.005	0.02	
	200110108	OLD8	21.18	8.57	Yes	0.005	5	0.11	0.04	0.00	0.00	0	0.03	0.64	
	200110123	OLD9	12.23	4.95	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	200110150	OLD4	20.36	8.24	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	Reach Total:		91.92	37.20				0.40	0.16	0.00	0.00	0.00	0		0.68
Reach Average:		15.32	6.20				0.07	0.03	0.00	0.00	0.00	0		0.11	
OM-01	200410053	OLD19	1.27	0.51	Yes	0		0.00	0.00	0.00	0.00	0		0.00	
	200410090	OLD22	13.84	5.6	Yes	0.03	9	0.42	0.17	0.00	0.00	0		0.00	
	Reach Total:		15.11	6.11				0.42	0.17	0.00	0.00	0.00	0		0.00
	Reach Average:		7.56	3.06				0.21	0.08	0.00	0.00	0.00	0		0.00
	Total Area % of total area		1289.28	521.75				2.06	0.83	0.11	0.04	0.009%	0.83	0.33	0.1%

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Tall Buttercup			Yellow Toadflax			Downy Chess		
			Polygon Size	Hectares		Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres Hectares
OM-10	200110162	OLD10	3.74	1.51	Yes	0		0.00	0		0.00	0		0.00
	200410058	OLD11	53.29	21.57	Yes	0.005	2	0.27	0		0.00	0		0.00
	200410037	OLD12	7	2.83	Yes	0		0.00	0		0.00	0		0.00
	Reach Total:		64.03	25.91				0.27			0.00			0.00
	Reach Average:		21.34	8.64				0.09			0.00			0.00
OM-09	200410064	CRW2	21.95	8.88	Yes	0.03	9	0.66	0.005	8	0.11	0		0.00
	200410040	CRW1	73.96	29.93	Yes	0.03	11	2.22	0.005	7	0.37	0		0.00
	Reach Total:		95.91	38.81				2.88			0.48			0.00
	Reach Average:		47.96	19.41				1.44			0.24			0.00
	200410039	CAT1	32.76	13.26	Yes	0		0.00	0		0.00	0.005	4	0.16
OM-08	200410060	CAT2	7.63	3.09	Yes	0.005	4	0.04	0		0.00	0.03	9	0.23
	Reach Total:		40.39	16.35				0.04			0.00			0.16
	Reach Average:		20.20	8.18				0.02			0.00			0.08
	200410052	OLD18	186.91	75.64	Yes	0.005	5	0.93	0.005	8	0.93	0		0.00
	200410056	OLD17	62.36	25.24	Yes	0		0.00	0.005	3	0.31	0.03	8	1.87
OM-07	Reach Total:		249.27	100.88				0.93			1.25			0.76
	Reach Average:		124.64	50.44				0.47			0.62			0.38
	200410055	OLD15	11.21	4.54	Yes	0		0.00	0		0.00	0.005	7	0.06
	200110149	OLD1	28.16	11.4	Yes	0		0.00	0		0.00	0		0.00
	200410066	OLD21	238.61	96.56	Yes	0		0.00	0		0.00	0		0.00
OM-05	Reach Total:		277.98	112.50				0.00			0.00			0.06
	Reach Average:		92.66	37.50				0.00			0.00			0.02

*Constancy is the number of times the species was observed in the Oldman River Project area

Total # polygons = 24						Tall Buttercup			Yellow Toadflax			Downy Chess		
AENV Reach	ID No.	Polygon Name	Polygon Size	Hectares	Are noxious weeds present?	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares
	200110162	OLD10	3.74	1.51	Yes	0		0.00	0		0.00	0		0.00
OM-04	200110104	OLD2	35.79	14.48	Yes	0		0.00	0		0.00	0		0.00
	200410042	OLD14	219.51	88.83	Yes	0		0.00	0		0.00	0		0.00
	200410057	OLD13	1.53	0.62	Yes	0		0.00	0		0.00	0		0.00
	Reach Total:		256.83	103.93				0.00			0.00			0.00
	Reach Average:		85.61	34.64				0.00			0.00			0.00
OM-03	200110106	OLD5	197.84	80.06	Yes	0		0.00	0		0.00	0		0.00
	Reach Total:		197.84	80.06				0.00			0.00			0.00
	Reach Average:		197.84	80.06				0.00			0.00			0.00
	200410051	OLD16	8.27	3.35	Yes	0		0.00	0		0.00	0.005	3	0.04
	200410043	OLD20	20.04	8.11	Yes	0		0.00	0		0.00	0		0.00
OM-02	200110107	OLD7	9.84	3.98	Yes	0		0.00	0		0.00	0		0.00
	200110108	OLD8	21.18	8.57	Yes	0		0.00	0		0.00	0		0.00
	200110123	OLD9	12.23	4.95	Yes	0		0.00	0		0.00	0		0.00
	200110150	OLD4	20.36	8.24	Yes	0		0.00	0		0.00	0		0.00
	Reach Total:		91.92	37.20				0.00			0.00			0.04
Reach Average:		15.32	6.20				0.00			0.00			0.01	
OM-01	200410053	OLD19	1.27	0.51	Yes	0		0.00	0		0.00	0.005	5	0.01
	200410090	OLD22	13.84	5.6	Yes	0		0.00	0		0.00	0		0.00
	Reach Total:		15.11	6.11				0.00			0.00			0.01
	Reach Average:		7.56	3.06				0.00			0.00			0.00
	Total Area % of total area		1289.28	521.75				4.12	1.67			1.73	0.70	
							0.3%	0.3%			0.1%	0.1%		0.2%

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Hoary Cress			White Cockle			Total (All Weeds)		
			Acres	Polygon Size		Constancy* = Canopy Cover % as a decimal	4% Density Distribution	Area Occupied	Constancy* Canopy Cover % as a decimal	4% Density Distribution	Area Occupied	Canopy Cover % as a decimal	Density Distribution	Area Occupied
OM-10	200110162	OLD10		3.74	1.51 Yes	0	0	0.00	0	0	0.00	0.03	8	0.11
	200410058	OLD11		53.29	21.57 Yes	0	0	0.00	0	0	0.00	0.1	11	5.33
	200410037	OLD12		7	2.83 Yes	0	0	0.00	0	0	0.00	0.005	8	0.04
	Reach Total:			64.03	25.91			0.00			0.00			5.48
	Reach Average:			21.34	8.64			0.00			0.00			1.83
OM-09	200410064	CRW2		21.95	8.88 Yes	0	0	0.00	0	0	0.00	0.03	9	0.66
	200410040	CRW1		73.96	29.93 Yes	0	0	0.00	0	0	0.00	0.1	11	7.40
	Reach Total:			95.91	38.81			0.00			0.00			8.05
	Reach Average:			47.96	19.41			0.00			0.00			4.03
	Reach Average:			20.20	8.18			0.00			0.00			1.63
OM-08	200410039	CAT1		32.76	13.26 Yes	0	0	0.00	0	0	0.00	0.005	8	0.16
	200410060	CAT2		7.63	3.09 Yes	0	0	0.00	0	0	0.00	0.03	10	0.23
	Reach Total:			40.39	16.35			0.00			0.00			0.39
	Reach Average:			20.20	8.18			0.00			0.00			0.20
	Reach Average:			20.20	8.18			0.00			0.00			0.08
OM-07	200410052	OLD18		186.91	75.64 Yes	0	0	0.00	0	0	0.00	0.1	10	18.69
	200410056	OLD17		62.36	25.24 Yes	0	0	0.00	0	0	0.00	0.03	10	1.87
	Reach Total:			249.27	100.88			0.00			0.00			20.56
	Reach Average:			124.64	50.44			0.00			0.00			10.28
	Reach Average:			124.64	50.44			0.00			0.00			4.16
OM-05	200410055	OLD15		11.21	4.54 Yes	0	0	0.00	0.01	5	0.06	0.005	8	0.06
	200110149	OLD1		28.16	11.4 Yes	0	0	0.00	0	0	0.00	0.03	10	0.84
	200410066	OLD21		238.61	96.56 Yes	0	0	0.00	0	0	0.00	0.03	10	7.16
	Reach Total:			277.98	112.50			0.00			0.06			8.06
	Reach Average:			92.66	37.50			0.00			0.02			2.69

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 24		Are noxious weeds present?	Hoary Cress			White Cockle			Total (All Weeds)			
			Acres	Polygon Size		Constancy* = Canopy Cover % as a decimal	4% Density Distribution	Area Occupied	Constancy* Canopy Cover % as a decimal	4% Density Distribution on	Area Occupied	Canopy Cover % as a decimal	Density Distribution	Area Occupied	Acres
	200110162	OLD10	3.74	1.51	Yes	0	0.00	0.00	0	0.00	0.00	0.03	8	0.11	0.05
OM-04	200110104	OLD2	35.79	14.48	Yes	0	0.00	0.00	0	0.00	0.00	0.3	9	10.74	4.34
	200410042	OLD14	219.51	88.83	Yes	0	0.00	0.00	0	0.00	0.00	0.005	8	1.10	0.44
	200410057	OLD13	1.53	0.62	Yes	0	0.00	0.00	0	0.00	0.00	0.005	5	0.01	0.00
	Reach Total:		256.83	103.93			0.00	0.00		0.00	0.00			11.84	4.79
	Reach Average:		85.61	34.64			0.00	0.00		0.00	0.00			3.95	1.60
OM-03	200110106	OLD5	197.84	80.06	Yes	0	0.00	0.00	0	0.00	0.00	0.3	10	59.35	24.02
	Reach Total:		197.84	80.06			0.00	0.00		0.00	0.00			59.35	24.02
	Reach Average:		197.84	80.06			0.00	0.00		0.00	0.00			59.35	24.02
	200410051	OLD16	8.27	3.35	Yes	0.005	3	0.04	0.02	0	0.00	0.03	10	0.25	0.10
	200410043	OLD20	20.04	8.11	Yes	0	0.00	0.00	0.00	0	0.00	0.03	13	0.60	0.24
OM-02	200110107	OLD7	9.84	3.98	Yes	0	0.00	0.00	0.00	0	0.00	0.6	11	5.90	2.39
	200110108	OLD8	21.18	8.57	Yes	0	0.00	0.00	0.00	0	0.00	0.6	10	12.71	5.14
	200110123	OLD9	12.23	4.95	Yes	0	0.00	0.00	0.00	0	0.00	0.1	9	1.22	0.50
	200110150	OLD4	20.36	8.24	Yes	0	0.00	0.00	0.00	0	0.00	0.3	10	6.11	2.47
	Reach Total:		91.92	37.20			0.04	0.02		0	0.00			26.79	10.84
OM-01	Reach Average:		15.32	6.20			0.01	0.00		0	0.00			4.47	1.81
	200410053	OLD19	1.27	0.51	Yes	0	0.00	0.00	0.00	0	0.00	0.03	8	0.04	0.02
	200410090	OLD22	13.84	5.6	Yes	0	0.00	0.00	0.00	0	0.00	0.1	11	1.38	0.56
	Reach Total:		15.11	6.11			0.00	0.00		0	0.00			1.42	0.58
	Reach Average:		7.56	3.06			0.00	0.00		0	0.00			0.71	0.29
Total Area % of total area			1289.28	521.75		0.04	0.02	0.003%		0.06	0.02			141.95	57.44
						0.003%	0.003%		0.004%	0.004%			11.0%	11.0%	

*Constancy is the number of times the species was observed in the Oldman River Project area

AENV Reach	ID Number	Polygon Number	Polygon Size (acres)	Polygon Size (hectares)	Classification Type Name	Percent of Polygon Cover	Area of Type (acres)	Area of Type (hectares)	Comments
OM-10	200110162	OLD10	3.74	1.51	POPUBAL/RAB CT	0.8	3.0	1.2	Excellent POPUBAL regeneration, however, majority of canopy cover being
	200110162	OLD10	3.74	1.51	SALIEXI CT	0.1	0.4	0.2	MELIOCC and various forbs. Most regen. about 3 years.
	200110162	OLD10	3.74	1.51	POPUBAL/CORNSTO CT	0.03	0.1	0.0	Along immediate river bank edge with Carex.
	200110162	OLD10	3.74	1.51	CAREUTR HT	0.03	0.1	0.0	Old (corresponds to a change in management, i.e. removal of cattle) Doug fir with ARCTUUL, most doug fir overhanging river, and SALIEXI/Carex veg., lots of
	200410058	OLD11	53.29	21.57	POPUBAL/SYMPPOCC CT	0.8	42.6	17.3	CORNSTO with POPUBAL overstorey.
	200410058	OLD11	53.29	21.57	POPUBAL/RAB CT	0.2	10.7	4.3	CAREUTR with Care altherodes and MENTARV.
OM-09	200410037	OLD12	7	2.83	ELAEOM CT	0.975	6.8	2.8	Shrub content barely meets criteria for this CT but this is due to heavy grazing pressure.
	200410037	OLD12	7	2.83	POPUBAL/RAB CT	0.03	0.2	0.1	Well advanced, seedlings are large on the cusp of being saplings.
	200410040	CRW1	73.96	29.93	SALIBEB CAREATH HT	0.975	72.1	29.2	Most mature little regeneration and alot of bare ground and cobbles in the understory.
OM-08	200410064	CRW2	21.95	8.88	BETUOCC CT	0.9	19.8	8.0	Mostly seedlings in this area, SALIEXI exists along the outer width.
	200410064	CRW2	21.95	8.88	POPUBAL/CORNSTO CT	0.1	2.2	0.9	Main sedges in this site were CAREUTR and CAREAQU
	200410039	CAT1	32.76	13.26	PIEGLA/CORNSTO HT	0.5	16.4	6.6	A variety of preferred shrub species int his community immediately along the bank and within the meander lobe. BROMINE is dominant throughout
OM-08	200410039	CAT1	32.76	13.26	POPUBAL/RAB CT	0.2	6.6	2.7	Along outer width, mostly mature, SALIBEB is dominant understory, with some SALIEXI as well.
	200410039	CAT1	32.76	13.26	POPUTRE/SYMPPOCC CT	0.1	3.3	1.3	
	200410060	CAT2	7.63	3.09	POPUBAL/SYMPPOCC CT	0.8	6.1	2.5	ELAECOM was present and ROSAWOO. No CORNSTO was found.
	200410060	CAT2	7.63	3.09	POPUBAL/RAB CT	0.2	1.5	0.6	Excellent regeneration of POPUBAL on bar. Mostly young seedling/sapling.

		Polygon Size		Area of Type					
OM-07		200410052 OLD18	186.91	75.64	POPUBAL/SYMPOCC CT	0.9	168.2	68.1	All age classes present. SHEPARG and ELAEACOM abundant, POPUANG is these areas.
		200410052 OLD18	186.91	75.64 <th>POPUBAL/RAB CT</th> <td>0.1</td> <td>18.7</td> <td>7.6</td> <td></td>	POPUBAL/RAB CT	0.1	18.7	7.6	
		200410056 OLD17	62.36	25.24 <th>POPUBAL/SYMPOCC CT</th> <td>0.8</td> <td>49.9</td> <td>20.2</td> <td></td>	POPUBAL/SYMPOCC CT	0.8	49.9	20.2	
		200410056 OLD17	62.36	25.24 <th>POPUBANG/RAB CT</th> <td>0.2</td> <td>12.5</td> <td>5.0</td> <td>Virtually no POPUBAL here.</td>	POPUBANG/RAB CT	0.2	12.5	5.0	Virtually no POPUBAL here.
OM-05		200410055 OLD15	11.21	4.54 <th>POPUBA/SYMPOCC CT</th> <td>0.975</td> <td>10.9</td> <td>4.4</td> <td>SYMPOCC present, but preferred species such as PRUNVIR, AMELALN and SALIEXI definitely dominant in the understory.</td>	POPUBA/SYMPOCC CT	0.975	10.9	4.4	SYMPOCC present, but preferred species such as PRUNVIR, AMELALN and SALIEXI definitely dominant in the understory.
		200410055 OLD15	11.21	4.54 <th>POPUBAL/RAB CT</th> <td>0.03</td> <td>0.3</td> <td>0.1</td> <td>Located on the meander lobe, about a 20m by 100m piece. Lots of young POPUBAL and POPUANG.</td>	POPUBAL/RAB CT	0.03	0.3	0.1	Located on the meander lobe, about a 20m by 100m piece. Lots of young POPUBAL and POPUANG.
		200110149 OLD1	28.16	11.4 <th>POPUBAL/SYMPOCC CT</th> <td>0.6</td> <td>16.9</td> <td>6.8</td> <td>Some CORNSTO, but canopy cover is no where near the one percent needed to make designation.</td>	POPUBAL/SYMPOCC CT	0.6	16.9	6.8	Some CORNSTO, but canopy cover is no where near the one percent needed to make designation.
		200110149 OLD1	28.16	11.4 <th>ELAEACOM CT</th> <td>0.2</td> <td>5.6</td> <td>2.3</td> <td>Open areas dominated by BROMINE and AGROTRA, but ELAEACOM highest layer, numerous robust stands of ELAEACOM.</td>	ELAEACOM CT	0.2	5.6	2.3	Open areas dominated by BROMINE and AGROTRA, but ELAEACOM highest layer, numerous robust stands of ELAEACOM.
		200110149 OLD1	28.16	11.4 <th>POPUBAL/RAB CT</th> <td>0.1</td> <td>2.8</td> <td>1.1</td> <td>Barely enough regeneration to make this designation, very large material deposited.</td>	POPUBAL/RAB CT	0.1	2.8	1.1	Barely enough regeneration to make this designation, very large material deposited.
		200110149 OLD1	28.16	11.4 <th>SALIEXI CT</th> <td>0.03</td> <td>0.8</td> <td>0.3</td> <td>Very robust SALIEXI community.</td>	SALIEXI CT	0.03	0.8	0.3	Very robust SALIEXI community.
		200110149 OLD1	28.16	11.4 <th>Unclassified Wetland Type</th> <td>0.03</td> <td>0.8</td> <td>0.3</td> <td>Rip rapped area, very little vegetation, thin line of perennial forbs and some SALIEXI along stream edge below rip rap.</td>	Unclassified Wetland Type	0.03	0.8	0.3	Rip rapped area, very little vegetation, thin line of perennial forbs and some SALIEXI along stream edge below rip rap.
		200410066 OLD21	238.61	96.56 <th>POPUBANG/CORNSTO CT</th> <td>0.7</td> <td>167.0</td> <td>67.6</td> <td>PRUNVIR is dominant in understory and SHEPARG was in southern portion</td>	POPUBANG/CORNSTO CT	0.7	167.0	67.6	PRUNVIR is dominant in understory and SHEPARG was in southern portion
		200410066 OLD21	238.61	96.56 <th>AGROSMI HT</th> <td>0.2</td> <td>47.7</td> <td>19.3</td> <td>Upland site was lacking in riparian vegetation.</td>	AGROSMI HT	0.2	47.7	19.3	Upland site was lacking in riparian vegetation.
OM-04		200410066 OLD21	238.61	96.56 <th>POPUBANG/RAB CT</th> <td>0.1</td> <td>23.9</td> <td>9.7</td> <td>POPUBAL was present as well as SALIEXI</td>	POPUBANG/RAB CT	0.1	23.9	9.7	POPUBAL was present as well as SALIEXI
		200410066 OLD21	238.61	96.56 <th>SALIBEB CT</th> <td>0.03</td> <td>7.2</td> <td>2.9</td> <td>SALIBEB appears to be dying out.</td>	SALIBEB CT	0.03	7.2	2.9	SALIBEB appears to be dying out.
		200110104 OLD2	35.79	14.48 <th>POPUBANG/CORNSTO CT</th> <td>0.4</td> <td>14.3</td> <td>5.8</td> <td>Moreso at the rear of the polygon closer to coulee edge. Maybe increase in moisture, therefore, Dogwood survival high.</td>	POPUBANG/CORNSTO CT	0.4	14.3	5.8	Moreso at the rear of the polygon closer to coulee edge. Maybe increase in moisture, therefore, Dogwood survival high.
		200110104 OLD2	35.79	14.48 <th>SALIEXI CT</th> <td>0.2</td> <td>7.2</td> <td>2.9</td> <td>Banks and RABS-mostly on inside meander lobe-where there is not lateral cutting.</td>	SALIEXI CT	0.2	7.2	2.9	Banks and RABS-mostly on inside meander lobe-where there is not lateral cutting.
		200110104 OLD2	35.79	14.48 <th>POPUBANG/RAB CT</th> <td>0.2</td> <td>7.2</td> <td>2.9</td> <td>Middle of meander lobe. No middle canopy-trees and Brome most vegetation-dry litter layer.</td>	POPUBANG/RAB CT	0.2	7.2	2.9	Middle of meander lobe. No middle canopy-trees and Brome most vegetation-dry litter layer.
		200110104 OLD2	35.79	14.48 <th>GLYCLEP CT</th> <td>0.1</td> <td>3.6</td> <td>1.4</td> <td>Also along point bar as a 2nd level vegetative community from the waters edge.</td>	GLYCLEP CT	0.1	3.6	1.4	Also along point bar as a 2nd level vegetative community from the waters edge.
		200110104 OLD2	35.79	14.48 <th>SALIUT CT</th> <td>0.1</td> <td>3.6</td> <td>1.4</td> <td>Divides the sandbar willow from the poplar.</td>	SALIUT CT	0.1	3.6	1.4	Divides the sandbar willow from the poplar.
		200410042 OLD14	219.51	88.83 <th>POPUBANG/SYMPOCC CT</th> <td>0.9</td> <td>197.6</td> <td>79.9</td> <td>Along the edge of POPUANG/CORNSTO CT on the outside bend.</td>	POPUBANG/SYMPOCC CT	0.9	197.6	79.9	Along the edge of POPUANG/CORNSTO CT on the outside bend.
		200410042 OLD14	219.51	88.83 <th>POPUBANG/RAB CT</th> <td>0.1</td> <td>22.0</td> <td>8.9</td> <td>Most of meander lobe all age classes present. POPUBAL AND SALIAMY abundant</td>	POPUBANG/RAB CT	0.1	22.0	8.9	Most of meander lobe all age classes present. POPUBAL AND SALIAMY abundant
	200410057 OLD13	1.53	0.62 <th>SALIEXI CT</th> <td>0.7</td> <td>1.1</td> <td>0.4</td> <td>Along riverbank, SALIEXI also found here.</td>	SALIEXI CT	0.7	1.1	0.4	Along riverbank, SALIEXI also found here.	
	200410057 OLD13	1.53	0.62 <th>POPUBAL/SYMPOCC CT</th> <td>0.3</td> <td>0.5</td> <td>0.2</td> <td>GLYCLEP was also prominent but SALIEXI was dominant.</td>	POPUBAL/SYMPOCC CT	0.3	0.5	0.2	GLYCLEP was also prominent but SALIEXI was dominant.	
									SYMPOCC was very dominant in this area.

Area of Type

Polygon Size

OM-03	200110106 OLD5	197.84	80.06	POPUANG/CORNSTO CT	0.4	79.1	32.0	This CT was more depauperate of Dogwood-it had majority of Saskatoon and Chokecherry as the understorey, but they do not classify into a CT. Dominant CT in lower half of polygon. Had a couple open field patches. Lacking shrub understorey. Along the banks-most of the fenced off area next to the shore. Good regeneration of Cottonwoods too! Along the lee slope of east boundary of polygon-not so much in upper end only lower.
	200110106 OLD5	197.84	80.06	POPUANG/SYMPPOCC CT	0.3	59.4	24.0	
	200110106 OLD5	197.84	80.06	SALIXI CT	0.2	39.6	16.0	
	200110106 OLD5	197.84	80.06	SHEPARG CT	0.1	19.8	8.0	
	200110106 OLD5	197.84	80.06	SHEPARG CT	0.1	19.8	8.0	
OM-02	200410043 OLD20	20.04	8.11	SALIXI CT	0.9	18.0	7.3	Young age class on gravel bar, mature higher up on bank. Old age class ROSAACI SYMPOCC AND PRUNVIR CORNSTO is present but very suppressed. A mix of POPUBAL/POPUANG all age classes present in each. A strong band of mature with seedling/sapling throughout. AGROTRA mixed in. Seedling/sapling some pole. Mostly mature with seedling/sapling mixed throughout. All age classes present, very few preferred shrubs, both POPUANG and POPUBAL. Mostly seedlings/saplings, some pole, in both POPUANG and POPUBAL. Along banks, various other gramin and forbs mixed in. A lot of AGROTRA in these areas as well. This was majority of community types-within this polygon Brome and SHEPARG were abundant. Significant Hounds Tongue in this understorey on second site. Dog covered in burns! Unfortunately (with there was a chokecherry/Saskatoon CT-understorey-yet these shrubs were grouped with Snowberry.) All age classes present in both POPUANG and POPUBAL. Mostly young SALIXI with seedling POPUBAL and POPUANG
	200410043 OLD20	20.04	8.11	ROSAWOO CT	0.1	2.0	0.8	
	200410051 OLD16	8.27	3.35	POPUBAL/SYMPPOCC CT	0.975	8.1	3.3	
	200110107 OLD7	9.84	3.98	POPUBAL/SYMPPOCC CT	0.6	5.9	2.4	
	200110107 OLD7	9.84	3.98	SALIXI CT	0.2	2.0	0.8	
	200110107 OLD7	9.84	3.98	BROMINE CT	0.1	1.0	0.4	
	200110107 OLD7	9.84	3.98	POPUANG/RAB CT	0.1	1.0	0.4	
	200110107 OLD7	9.84	3.98	SHEPARG CT	0.03	0.3	0.1	
	200110108 OLD8	21.18	8.57	POPUBAL/SYMPPOCC CT	0.5	10.6	4.3	
	200110108 OLD8	21.18	8.57	POPUANG/RAB CT	0.3	6.4	2.6	
	200110108 OLD8	21.18	8.57	HORDJUB CT	0.1	2.1	0.9	
	200110108 OLD8	21.18	8.57	BROMINE CT	0.1	2.1	0.9	
	200110123 OLD9	12.23	4.95	POPUBAL/HERB CT	0.6	7.3	3.0	
	200110123 OLD9	12.23	4.95	POPUBAL/SYMPPOCC CT	0.4	4.9	2.0	
	200110150 OLD4	20.36	8.24	POPUBAL/SYMPPOCC CT	0.9	18.3	7.4	
	200110150 OLD4	20.36	8.24	SALIXI CT	0.1	2.0	0.8	
OM-01	200410053 OLD19	1.27	0.51	POPUDEL/RAB CT	0.5	0.6	0.3	Along the cobble bar SALIXI also here. HORDJUB is prevalent. Mostly mature, there are a variety of shrubs occurring here. Majority of polygon is gravel bar and sandy above.
	200410053 OLD19	1.27	0.51	PRUNVIR CT	0.5	0.6	0.3	
	200410090 OLD22	13.84	5.6	SALIXI CT	0.975	13.5	5.5	

Polygon Size

Area of Type

Seven Letter Code

AGROSMI HT
 BETUOCC CT
 BROMINE CT
 CAREUTR HT
 ELAECOM CT
 GLYCLEP CT
 HORDJUB CT
 PICEGLA/CORNSTO HT
 POPUANG/CORNSTO CT
 POPUANG/IRAB CT
 POPUANG/SYMPPOCC CT
 POPUBAL/CORNSTO CT
 POPUBAL/HERB CT
 POPUBAL/IRAB CT
 POPUBAL/SYMPPOCC CT
 POPUDELU/RAB CT
 POPUTRE/SYMPPOCC CT
 PRUNVIR CT
 ROSAWOO CT
 SALIBEB CT
 SALIBEB/CAREATH HT
 SALIEXI CT
 SALILUT CT
 SHEPARG CT
 UNCLASSIFIED WETLAND TYPE

Habitat or Community Type Name

Agropyron smithii Habitat Type
 Betula occidentalis Community Type
 Bromus inermis Community Type
 Carex utriculata Habitat Type
 Eleoagnus commutata Community Type
 Glycyrrhiza lepidota Community Type
 Hordeum jubatum Community Type
 Picea glauca/Cornus stolonifera Habitat Type
 Populus angustifolia/Cornus stolonifera Community Type
 Populus angustifolia/Recent Alluvial Bar Community Type
 Populus angustifolia/Symphoricarpos occidentalis Community Type
 Populus balsamifera/Cornus stolonifera Community Type
 Populus balsamifera/Herbaceous Community Type
 Populus balsamifera/Recent Alluvial Bar Community Type
 Populus balsamifera/Symphoricarpos occidentalis Community Type
 Populus deltoides/Recent Alluvial Bar Community Type
 Populus tremuloides/Symphoricarpos occidentalis Community Type
 Prunus virginiana Community Type
 Rosa woodii Community Type
 Salix bebbiana Community Type
 Salix bebbiana/Carex atherodes Community Type
 Salix exigua Community Type
 Salix lutea Community Type
 Shepherdia argentea Community Type
 Unclassified Wetland Type

Logging, Railroads and Mining are factors NOT contributing to structurally altered banks by human causes in Oldman River SSRB 2004 project area.

Total # of Polygons = 24			Of the length of stream with human caused alterations, how much is due to:																						
AENV Reach	ID No.	Polygon Number	Length of stream inventoried (km)	(miles)	Is stream bank altered by on-site human activities?	Percent of bank length with human caused alterations (percent as a decimal)	Stream length inventoried x % altered		Grazing		Stream length km or miles with human-caused bank alterations x % alterations associated with grazing		Veg Removal		Stream length km or miles with human-caused alterations x % alterations associated with vegetation removal		Roads		Stream length km or miles with human-caused bank alterations x % alterations associated with roads		Recreation		Stream length km or miles with human-caused bank alterations x % alterations associated with recreation		
							(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)
OM-10	200110162	OLD10	0.76	0.47	Yes	0.005	0.004	0.002	0.975	0.004	0.002	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410058	OLD11	1.08	0.67	Yes	0.005	0.005	0.003	0.975	0.005	0.003	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410037	OLD12	0.71	0.44	Yes	0.005	0.004	0.002	0.975	0.003	0.002	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
						Reach Total:	0.013	0.008	0.012	0.008	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						Reach Average:	0.004	0.003	0.004	0.003	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OM-09	200410040	CRW1	1.00	0.62	Yes	0.975	0.975	0.605	0.03	0.029	0.018	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410064	CRW2	1.11	0.69	Yes	0.4	0.444	0.276	0.005	0.002	0.001	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
						Reach Total:	1.419	0.881	0.031	0.031	0.020	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						Reach Average:	0.710	0.440	0.016	0.010	0.010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OM-08	200410039	CAT1	1.66	1.03	Yes	0.005	0.008	0.005	0.8	0.007	0.004	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.2	0.002	0.001
	200410060	CAT2	1.03	0.64	Yes	0.005	0.005	0.003	0.975	0.005	0.003	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
						Reach Total:	0.013	0.008	0.012	0.007	0.007	0	0	0	0	0	0	0	0	0	0	0	0.002	0.001	0.001
						Reach Average:	0.007	0.004	0.006	0.004	0.004	0	0	0	0	0	0	0	0	0	0	0	0.001	0.001	0.001
OM-07	200410056	OLD17	0.79	0.49	No	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410052	OLD18	1.51	0.94	No	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
						Reach Total:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
						Reach Average:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OM-05	200410055	OLD15	1.51	0.94	Yes	0.005	0.008	0.005	0.975	0.007	0.005	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200110149	OLD1	0.95	0.59	Yes	0.8	0.760	0.472	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410066	OLD21	1.61	1.00	No	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
						Reach Total:	0.768	0.477	0.005	0.002	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
					Reach Average:	0.256	0.159	0.002	0.002	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Logging, Railroads and Mining are factors NOT contributing to structurally altered banks by human causes in Oldman River SSRB 2004 project area.

Total # of
Polygons =

24

Length of stream
fractured x %

Of the length of stream with human caused alterations, how much is due to:

AENV Reach		ID No.	Polygon Number	Length of stream inventoried	Is stream bank altered by on-site human activities?	Percent of bank length with human caused alterations	Stream length inventoried with human caused alterations	Stream length km or miles with human-caused bank alterations x % alterations associated with grazing	Veg Removal	Stream length km or miles with human-caused bank alterations x % alterations associated with vegetation removal	Roads	Stream length km or miles with human-caused bank alterations x % alterations associated with roads	Recreation	Stream length km or miles with human-caused bank alterations x % alterations associated with recreation	
OM-04	200110104	OLD2		1.21	0.75 Yes	0.005	0.006	0.004	0.975	0.006	0.004	0	0.000	0	0.000
	200410057	OLD13		1.24	0.77 Yes	0.005	0.006	0.004	0.2	0.001	0.001	0	0.000	0	0.000
	200410042	OLD14		2.22	1.38 Yes	0.005	0.011	0.007	0.975	0.011	0.007	0.005	0.0001	0.000	0.000
				Reach Total:		0.023	0.015	0.018	0	0	0	0	0	0	0
					Reach Average:		0.008	0.005	0.006	0.004	0	0	0	0	0
OM-03	200110106	OLD5		3.20	1.99 No	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0.000
				Reach Total:		0	0	0	0	0	0	0	0	0	0
				Reach Average:		0	0	0	0	0	0	0	0	0	0
OM-02	200410051	OLD16		0.84	0.52 Yes	0.3	0.252	0.156	0.005	0.001	0.001	0.1	0.025	0.016	0.005
	200410043	OLD20		1.01	0.63 Yes	0.005	0.005	0.003	0	0.000	0.000	0	0.000	0.000	0.000
	200110150	OLD4		1.03	0.64 Yes	0.03	0.031	0.019	0	0.000	0.000	0	0.000	0.000	0.000
	200110107	OLD7		0.53	0.33 Yes	0.005	0.003	0.002	0.975	0.003	0.002	0	0.000	0.000	0.000
				1.14	0.71 Yes	0.03	0.034	0.021	0.975	0.033	0.021	0	0.000	0.000	0.000
	200110123	OLD9		0.66	0.41 Yes	0.1	0.066	0.041	0	0.000	0.000	0	0.000	0.000	0.000
OM-01	200410053	OLD19		0.51	0.32 Yes	0.005	0.003	0.002	0.001	0.001	0.001	0	0.000	0.000	0.000
				0.93	0.58 Yes	0.1	0.093	0.058	0.975	0.091	0.057	0	0.000	0.000	0.000
				Reach Total:		0.096	0.060	0.093	0	0	0	0	0	0	0
				Reach Average:		0.048	0.030	0.047	0	0	0	0	0	0	0
Totals	Average	Percentage	28.24	17.55	6.40	3.97	0.23	0.003	0.002	0.05	0.03	0.21			
			1.18	0.73	0.16	0.10	0.01	0.000	0.000	0.00	0.01				
					22.7%	22.6%	5.7%	0.04%	0.04%	0.9%	0.9%	3.3%			

Logging, Railroads and Mining are factors NOT contributing to structure

AENV Reach	ID No.	Polygon Number	Total # of Polygons = 24		Length of stream inventoried (km)	Length of stream inventoried (miles)	Is stream bank altered by on-site human activities?	Percent of length with human caused alterations (percent as a decimal)	Stream length inventoried with human caused alterations (km)	Stream length inventoried with human caused alterations (miles)	Stream length km or miles with human-caused bank alterations x % alterations associated with other causes		Other (percent as a decimal)	Stream length km or miles with human-caused bank alterations x % alterations associated with other causes	Explain "other"
OM-10	200110162	OLD10	0.76	0.47	Yes	0.005	0.004	0.002	0	0.000	0.000		0	0.000	
	200410058	OLD11	1.08	0.67	Yes	0.005	0.005	0.003	0	0.000	0.000		0	0.000	
	200410037	OLD12	0.71	0.44	Yes	0.005	0.004	0.002	0	0.000	0.000		0	0.000	
							Reach Total:	0.013	0.008						
							Reach Average:	0.004	0.003						
OM-09	200410040	CRW1	1.00	0.62	Yes	0.975	0.975	0.605	0.975	0.951	0.589		0.975	0.951	river has been channelized and re-routed fish weirs and riprap
	200410064	CRW2	1.11	0.69	Yes	0.4	0.444	0.276	0.975	0.433	0.269		0.975	0.433	
							Reach Total:	1.419	0.881	1.384	0.858			0.858	
							Reach Average:	0.710	0.440	0.692	0.429			0.429	
OM-08	200410039	CAT1	1.66	1.03	Yes	0.005	0.008	0.005	0	0.000	0.000		0	0.000	
	200410060	CAT2	1.03	0.64	Yes	0.005	0.005	0.003	0	0.000	0.000		0	0.000	
							Reach Total:	0.013	0.008	0	0			0	
							Reach Average:	0.007	0.004	0	0			0	
OM-07	200410056	OLD17	0.79	0.49	No	0	0.000	0.000	0	0.000	0.000		0	0.000	
	200410052	OLD18	1.51	0.94	No	0	0.000	0.000	0	0.000	0.000		0	0.000	
							Reach Total:	0	0	0	0			0	
							Reach Average:	0	0	0	0			0	
OM-05	200410055	OLD15	1.51	0.94	Yes	0.005	0.008	0.005	0	0.000	0.000		0	0.000	Rip rapped bank upstream of bridge
	200110149	OLD1	0.95	0.59	Yes	0.8	0.760	0.472	0.975	0.741	0.460		0.975	0.741	
	200410066	OLD21	1.61	1.00	No	0	0.000	0.000	0	0.000	0.000		0	0.000	
							Reach Total:	0.768	0.477	0.741	0.460			0.741	
							Reach Average:	0.256	0.159	0.247	0.153			0.247	

Logging, Railroads and Mining are factors NOT contributing to structural changes										
24										
Total # of Polygons =										
AENV Reach	ID No.	Polygon Number	Length of stream inventoried	Is stream bank altered by on-site human activities?	Percent of bank length with human caused alterations	Length of stream inventoried x %		Other	Stream length km or miles with human-caused bank alterations x % alterations associated with other causes	Explain "other"
OM-04	200110104 OLD2		1.21	0.75 Yes	0.005	0.006	0.004	0	0.000	0.000
	200410057 OLD13		1.24	0.77 Yes	0.005	0.006	0.004	0.8	0.005	0.003
	200410042 OLD14		2.22	1.38 Yes	0.005	0.011	0.007	0	0.000	0.000
				Reach Total:		0.023	0.015		0.005	0.003
				Reach Average:		0.008	0.005		0.002	0.001
OM-03	200110106 OLD5		3.20	1.99 No	0	0.000	0.000	0	0.000	0.000
				Reach Total:		0	0		0	0
				Reach Average:		0	0		0	0
OM-02	200410051 OLD16		0.84	0.52 Yes	0.3	0.252	0.156	0.9	0.227	0.140
	200410043 OLD20		1.01	0.63 Yes	0.005	0.005	0.003	0.975	0.005	0.003
	200110150 OLD4		1.03	0.64 Yes	0.03	0.031	0.019	0	0.000	0.000
	200110107 OLD7		0.53	0.33 Yes	0.005	0.003	0.002	0	0.000	0.000
OM-01	200110108 OLD8		1.14	0.71 Yes	0.03	0.034	0.021	0	0.000	0.000
	200110123 OLD9		0.66	0.41 Yes	0.1	0.066	0.041	0	0.000	0.000
				Reach Total:		0.391	0.242		0.232	0.143
				Reach Average:		0.065	0.040		0.039	0.024
OM-01	200410053 OLD19		0.51	0.32 Yes	0.005	0.003	0.002	0	0.000	0.000
	200410090 OLD22		0.93	0.58 Yes	0.1	0.093	0.058	0	0.000	0.000
				Reach Total:		0.096	0.060		0	0
				Reach Average:		0.048	0.030		0	0
Totals			28.24	17.55	6.40	3.97			5.70	3.54
Average			1.18	0.73	0.16	0.10			0.14	0.09
Percentage					22.7%	22.6%			89.1%	89.1%

Of exposed soil surface within polygon, how much is due to:

AENV Reach	ID No.	Polygon Name	Polygon Size		Is there exposed soil surface?	Percent of polygon which is exposed soil surface % as a decimal	Area of polygon which is exposed soil surface		polygon size x % polygon area with exposed soil surface	Natural Processes			Human-caused processes:				
			acres	hectares			yes/no/NA	Percent of polygon which is exposed soil surface % as a decimal		Area of polygon which is exposed soil surface		Percent due to natural processes % as a decimal	Area due to natural processes %natural		Percent due to human caused disturbance % as a decimal	Area due to human caused disturbance %hc	
										acres	hectares		acres	hectares		acres	hectares
OM-10	200110162 OLD10		3.74	1.51	Yes	0.03	0.11	0.05		0.975	0.11	0.04	0.005	0.00	0.00		
	200410058 OLD11		53.29	21.57	Yes	0.2	10.66	4.31		0.8	8.53	3.45	0.2	2.13	0.86		
	200410037 OLD12		7	2.83	Yes	0.2	1.40	0.57		0.975	1.37	0.55	0.005	0.01	0.00		
					Total:	0.4	12.2	4.9		2.8	10.0	4.0	0.2	2.1	0.9		
					Average:	0.14	4.06	1.64		0.92	3.33	1.35	0.07	0.71	0.29		
OM-09	200410040 CRW1		73.96	29.93	Yes	0.005	0.37	0.15		0.1	0.04	0.01	0.9	0.33	0.13		
	200410064 CRW2		21.95	8.88	Yes	0.005	0.11	0.04		0.03	0.00	0.00	0.975	0.11	0.04		
					Total:	0.0	0.5	0.2		0.01	0.0	0.0	1.9	0.4	0.2		
					Average:	0.0	0.24	0.10		0.07	0.02	0.01	0.94	0.22	0.09		
OM-08	200410039 CAT1		32.76	13.26	Yes	0.03	0.98	0.40		0.8	0.79	0.32	0.2	0.20	0.08		
	200410060 CAT2		7.63	3.09	Yes	0.1	0.76	0.31		0.975	0.74	0.30	0.005	0.00	0.00		
					Total:	0.1	1.7	0.7		1.8	1.5	0.6	0.2	0.2	0.1		
					Average:	0.07	0.87	0.35		0.89	0.77	0.31	0.10	0.10	0.04		
OM-07	200410056 OLD17		62.36	25.24	Yes	0.1	6.24	2.52		0.9	5.61	2.27	0.1	0.62	0.25		
	200410052 OLD18		186.91	75.64	Yes	0.1	18.69	7.56		0.975	18.22	7.37	0	0.00	0.00		
					Total:	0.2	24.9	10.1		1.9	23.8	9.6	0.1	0.6	0.3		
					Average:	0.10	12.46	5.04		0.94	11.92	4.82	0.05	0.31	0.13		

Of exposed soil surface within polygon, how much is due to:

AENV Reach	ID No.	Polygon Name	polygon size x % polygon area with exposed soil surface			Natural Processes			Human-caused processes:					
			Polygon Size		Is there exposed soil surface? yes/no/NA	Percent of polygon which is exposed soil surface % as a decimal	Area of polygon which is exposed soil surface acres hectares	Percent due to natural processes % as a decimal	area expose x %natural		Percent due to human caused disturbance % as a decimal	Area due to human caused disturbance acres hectares		
			acres	hectares					acres	hectares		acres	hectares	
OM-05	200110149 OLD1		28.16	11.4	Yes	0.1	2.82	1.14	0.1	0.28	0.11	0.9	2.53	1.03
	200410055 OLD15		11.21	4.54	Yes	0.03	0.34	0.14	0.975	0.33	0.13	0.005	0.00	0.00
	200410066 OLD21		238.61	96.56	Yes	0.1	23.86	9.66	0.975	23.26	9.41	0.03	0.72	0.29
					Total:	0.2	27.0	10.9	2.1	23.9	9.7	0.9	3.3	1.3
					Average:	0.08	9.00	3.64	0.68	7.96	3.22	0.31	1.08	0.44
OM-04	200110104 OLD2		35.79	14.48	Yes	0.2	7.16	2.90	0.7	5.01	2.03	0.3	2.15	0.87
	200410057 OLD13		1.53	0.62	Yes	0.005	0.01	0.00	0.4	0.00	0.00	0.6	0.00	0.00
	200410042 OLD14		219.51	88.83	Yes	0.1	21.95	8.88	0.2	4.39	1.78	0.8	17.56	7.11
					Total:	0.3	29.1	11.8	1.3	9.4	3.8	1.7	19.7	8.0
					Average:	0.10	9.71	3.93	0.43	3.13	1.27	0.57	6.57	2.66
OM-03	200110106 OLD5		197.84	80.06	Yes	0.1	19.78	8.01	0.975	19.29	7.81	0.005	0.10	0.04
					Total:	0.1	19.8	8.0	1.0	19.3	7.8	0.0	0.1	0.0
					Average:	0.10	19.78	8.01	0.98	19.29	7.81	0.01	0.10	0.04

Of exposed soil surface within polygon, how much is due to:

polygon size x % polygon area with exposed soil surface										Human-caused processes:				
Polygon Size			Is there exposed soil surface?	Percent of polygon which is exposed soil surface	Area of polygon which is exposed soil surface		Natural Processes		Human-caused processes:					
			yes/no/NA	% as a decimal	acres	hectares	Percent due to natural processes	area expose x %natural	Percent due to human caused disturbance	area expose x %hc				
AENV Reach	ID No.	Polygon Name	acres	hectares	yes/no/NA	% as a decimal	acres	hectares	% as a decimal	acres	hectares			
OM-02	200110150	OLD4	20.36	8.24	Yes	0.1	2.04	0.82	0.3	0.61	0.25	0.7	1.43	0.58
	200110107	OLD7	9.84	3.98	Yes	0.03	0.30	0.12	0.7	0.21	0.08	0.3	0.09	0.04
	200110108	OLD8	21.18	8.57	Yes	0.2	4.24	1.71	0.6	2.54	1.03	0.4	1.69	0.69
	200110123	OLD9	12.23	4.95	Yes	0.1	1.22	0.50	0	0.00	0.00	0.975	1.19	0.48
	200410051	OLD16	8.27	3.35	Yes	0.1	0.83	0.34	0.6	0.50	0.20	0.4	0.33	0.13
OM-01	200410043	OLD20	20.04	8.11	Yes	0.2	4.01	1.62	0.975	3.91	1.58	0.005	0.02	0.01
					Total:	0.7	12.6	5.1	3.2	7.8	3.1	2.8	4.8	1.9
					Average:	0.12	2.10	0.85	0.53	1.29	0.52	0.46	0.79	0.32
	200410053	OLD19	1.27	0.51	Yes	0.03	0.04	0.02	0.9	0.03	0.01	0.1	0.00	0.00
	200410090	OLD22	13.84	5.6	Yes	0.3	4.15	1.68	0.6	2.49	1.01	0.4	1.66	0.67
				Total:	0.3	4.2	1.7	1.5	2.5	1.0	0.5	1.7	0.7	
				Average:	0.17	2.10	0.85	0.75	1.26	0.51	0.25	0.83	0.34	
sum area all polygon areas			1289.28	521.75	288.55			116.77	218.28	88.33	67.90	27.48		
sum area all polygon areas/ number polygons					9.31			3.77	7.04	2.85	2.19	0.89		
					22.4%			22.4%	75.6%	75.6%	23.5%	23.5%		
			total area exposed/ total area										total area of bare ground by natural causes / total area of exposed soil	
			total area exposed/ total area										total area of bare ground by human causes / total area of exposed soil	

Of natural processes, how much is due to:

AENV Reach	ID No.	Polygon Name	Polygon Size		area natural processes x %ero		area natural processes x %dep		Wildlife Use		area natural processes x %wild		Within Veg Ch Bott		area natural processes x %veg ch bott	
			acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares
OM-10	200110162	OLD10	3.74	1.51	0.03	0.003	0.001	0.9	0.098	0.040	0.03	0.003	0.001	0	0.000	0.000
	200410058	OLD11	53.29	21.57	0.1	0.853	0.345	0.9	7.674	3.106	0.005	0.043	0.017	0	0.000	0.000
	200410037	OLD12	7	2.83	0.4	0.546	0.221	0.6	0.819	0.331	0.005	0.007	0.003	0	0.000	0.000
					0.5	1.4	0.6	2.4	8.6	3.5	0.0	0.1	0.0	0.0	0.0	0.0
OM-09					0.18	0.47	0.19	0.80	2.86	1.16	0.01	0.02	0.01	0.00	0.00	0.00
	200410040	CRW1	73.96	29.93	0.3	0.011	0.004	0.1	0.004	0.001	0.6	0.022	0.009	0	0.000	0.000
	200410064	CRW2	21.95	8.88	0.3	0.001	0.000	0.6	0.002	0.001	0.1	0.000	0.000	0	0.000	0.000
					0.6	0.0	0.0	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0
OM-08					0.30	0.01	0.00	0.35	0.00	0.00	0.35	0.01	0.00	0.00	0.00	0.00
	200410039	CAT1	32.76	13.26	0.2	0.157	0.064	0.3	0.236	0.095	0	0.000	0.000	0.5	0.393	0.159
	200410060	CAT2	7.63	3.09	0.3	0.223	0.090	0.6	0.446	0.181	0	0.000	0.000	0.1	0.074	0.030
					0.5	0.4	0.2	0.9	0.7	0.3	0.0	0.0	0.0	0.6	0.5	0.2
OM-07					0.25	0.19	0.08	0.45	0.34	0.14	0.00	0.00	0.00	0.30	0.23	0.09
	200410056	OLD17	62.36	25.24	0.1	0.561	0.227	0.9	5.051	2.044	0.03	0.168	0.068	0	0.000	0.000
	200410052	OLD18	186.91	75.64	0.3	5.467	2.212	0.7	12.757	5.162	0	0.000	0.000	0	0.000	0.000
					0.4	6.0	2.4	1.6	17.8	7.2	0.0	0.2	0.1	0.0	0.0	0.0
					0.20	3.01	1.22	0.80	8.90	3.60	0.02	0.08	0.03	0.00	0.00	0.00

Of natural processes, how much is due to:

AENV Reach	ID No.	Polygon Name	Polygon Size		area natural processes x %ero		area natural processes x %dep		area natural processes x %wild		Within Veg Ch Bott		area natural processes x %veg ch bott	
			Area		Depositional		Area		Wildlife Use		Area		Area	
			acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal
OM-05	200110149 OLD1 200410055 OLD15 200410066 OLD21		28.16	11.4	0.2	0.056	0.023	0.4	0.113	0.046	0.4	0.113	0.046	0
			11.21	4.54	0.2	0.066	0.027	0.8	0.262	0.106	0.005	0.002	0.001	0
			238.61	96.56	0.1	2.326	0.941	0.9	20.938	8.473	0.03	0.698	0.282	0
					0.5	2.4	1.0	2.1	21.3	8.6	0.4	0.8	0.3	0.0
					0.17	0.82	0.33	0.70	7.10	2.87	0.15	0.27	0.11	0.00
OM-04	200110104 OLD2 200410057 OLD13 200410042 OLD14		35.79	14.48	0.6	3.006	1.216	0.4	2.004	0.811	0.03	0.150	0.061	0
			1.53	0.62	0.7	0.002	0.001	0.2	0.001	0.000	0.1	0.000	0.000	0
			219.51	88.83	0.5	2.195	0.888	0.5	2.195	0.888	0	0.000	0.000	0
					1.8	5.2	2.1	1.1	4.2	1.7	0.1	0.2	0.1	0.0
					0.60	1.73	0.70	0.37	1.40	0.57	0.04	0.05	0.02	0.00
OM-03	200110106 OLD5		197.84	80.06	0	0.000	0.000	0.975	18.807	7.611	0	0.000	0.000	0
					0.0	0.0	0.0	1.0	18.8	7.6	0.0	0.0	0.0	0.0
					0.00	0.00	0.00	0.98	18.81	7.61	0.00	0.00	0.00	0.00

Of natural processes, how much is due to:																		
AENV Reach	ID No.	Polygon Name	Polygon Size		area natural processes x %ero		Depositional		area natural processes x %dep		Wildlife Use		Area		Within Veg Ch Bott		area natural processes x %veg ch bott	
			acres	hectares	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares
OM-02	200110150	OLD4	20.36	8.24	0.5	0.305	0.124	0.5	0.305	0.124	0.03	0.018	0.007	0	0.000	0	0.000	0.000
	200110107	OLD7	9.84	3.98	0.5	0.103	0.042	0.5	0.103	0.042	0.03	0.006	0.003	0	0.000	0	0.000	0.000
	200110108	OLD8	21.18	8.57	0.3	0.762	0.309	0.7	1.779	0.720	0.005	0.013	0.005	0	0.000	0	0.000	0.000
	200110123	OLD9	12.23	4.95	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410051	OLD16	8.27	3.35	0.1	0.050	0.020	0.9	0.447	0.181	0.005	0.002	0.001	0	0.000	0	0.000	0.000
OM-01	200410043	OLD20	20.04	8.11	0.005	0.020	0.008	0.975	3.810	1.542	0.005	0.020	0.008	0	0.000	0	0.000	0.000
	200410053	OLD19	1.27	0.51	1.4	1.2	0.5	3.6	6.4	2.6	0.1	0.1	0.0	0	0.000	0	0.000	0.000
	200410090	OLD22	13.84	5.6	0.23	0.21	0.08	0.60	1.07	0.43	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
	200410053	OLD19	1.27	0.51	0.3	0.010	0.004	0.7	0.024	0.010	0	0.000	0.000	0	0.000	0	0.000	0.000
	200410090	OLD22	13.84	5.6	0	0.000	0.000	0.4	0.996	0.403	0.1	0.249	0.101	0	0.000	0	0.000	0.000
sum area all polygon areas/ number polygons	Totals		1289.28	521.75	36.57	14.80	177.16	71.69	3.05	1.23	1.17	0.47						
	Average		53.72	21.74	1.18	0.48	5.71	2.31	0.10	0.04	0.04	0.02						
					16.8%	16.8%	81.2%	81.2%	1.4%	1.4%	0.5%	0.5%						

Of human-caused processes, how much is due to:

AENV Reach	ID No.	Polygon Name	Polygon Size		Other	area natural processes x %other		area hc dist x %grz		area hc dist x %recreation	
			acres	hectares		acres	hectares	acres	hectares	acres	hectares
					% as a decimal			% as a decimal		% as a decimal	
OM-10	200110162 OLD10		3.74	1.51	0	0.000	0.000	0.975	0.001	0	0.000
	200410058 OLD11		53.29	21.57	0	0.000	0.000	0.975	2.078	0.005	0.011
	200410037 OLD12		7	2.83	0	0.000	0.000	0.975	0.007	0	0.000
OM-09	200410040 CRW1		73.96	29.93	0	0.000	0.000	0.975	0.324	0	0.000
	200410064 CRW2		21.95	8.88	0	0.000	0.000	1.5	0.054	0	0.000
					0.0	0.0	0.0	0.74	0.19	0.0	0.0
OM-08	200410039 CAT1		32.76	13.26	0	0.000	0.000	0.975	0.192	0	0.000
	200410060 CAT2		7.63	3.09	0	0.000	0.000	0.975	0.004	0	0.000
					0.0	0.0	0.0	2.0	0.2	0.0	0.0
OM-07	200410056 OLD17		62.36	25.24	0	0.000	0.000	0.98	0.10	0.00	0.00
	200410052 OLD18		186.91	75.64	0	0.000	0.000	0.03	0.019	0	0.000
					0.0	0.0	0.0	0.0	0.0	0	0.000
					0.00	0.00	0.00	0.02	0.01	0.00	0.00

Of human-caused processes, how much is due to:

On human-caused processes, how much is due to:													
			area natural processes x %other				area hc dist x %grz				area hc dist x %recreation		
AENV Reach	ID No.	Polygon Name	Polygon Size		Other	Area		Grazing	Area		Recreation	Area	
			acres	hectares		% as a decimal	acres		hectares	% as a decimal		acres	hectares
OM-05	200110149 OLD1		28.16	11.4	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	200410055 OLD15		11.21	4.54	0	0.000	0.000	0.975	0.002	0.001	0	0.000	0.000
	200410066 OLD21		238.61	96.56	0	0.000	0.000	0.975	0.698	0.282	0	0.000	0.000
					0.0	0.0	0.0	2.0	0.7	0.3	0.0	0.0	0.0
OM-04					0.00	0.00	0.00	0.65	0.23	0.09	0.00	0.00	0.00
	200110104 OLD2		35.79	14.48	0	0.000	0.000	0.975	2.094	0.847	0.03	0.064	0.026
	200410057 OLD13		1.53	0.62	0	0.000	0.000	0.2	0.001	0.000	0	0.000	0.000
	200410042 OLD14		219.51	88.83	0	0.000	0.000	0.4	7.024	2.843	0	0.000	0.000
OM-03					0.0	0.0	0.0	1.6	9.1	3.7	0.0	0.1	0.0
					0.00	0.00	0.00	0.53	3.04	1.23	0.01	0.02	0.01
	200110106 OLD5		197.84	80.06	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Of human-caused processes, how much is due to:

On human-caused processes, from human causes										
		area hc dist x %grz				area hc dist x %recreation				
AENV Reach	ID No.	Polygon Size		Other	Area		Recreation	Area		
		acres	heclares		% as a decimal	acres		heclares	% as a decimal	acres
OM-02	200110150 OLD4	20.36	8.24	0	0.000	0.000	0.975	1.390	0.562	
	200110107 OLD7	9.84	3.98	0	0.000	0.000	0.7	0.062	0.025	
	200110108 OLD8	21.18	8.57	0	0.000	0.000	0.975	0	0.000	
	200110123 OLD9	12.23	4.95	0	0.000	0.000	0.975	1.163	0.471	
	200410051 OLD16	8.27	3.35	0	0.000	0.000	0.005	0.002	0.001	
OM-01	200410043 OLD20	20.04	8.11	0	0.000	0.000	0	0.000	0.000	
	200410053 OLD19	1.27	0.51	0.975	0.004	0.001	0	0.000	0.000	
	200410090 OLD22	13.84	5.6	0.975	1.619	0.655	0	0.000	0.000	
				2.0	1.6	0.7	0.0	0.0	0.0	
				0.98	0.81	0.33	0.00	0.00	0.00	
sum area all polygon areas		1289.28	521.75		1.25	0.50	28.71	11.62	5.82	2.35
sum area all polygon areas/ number polygons		Average	21.74		0.04	0.02	0.93	0.37	0.19	0.08
					0.6%	0.6%	42.3%	42.3%	8.6%	8.6%
					total area cause / total area of bare ground due to human causes					

AENV Reach	ID No.	Polygon Size		Polygon Name	Other		Area		Explain "Other"
		acres	hectares		% as a decimal	acres	hectares		
OM-10	200110162 OLD10	3.74	1.51		0	0.000	0.000	roadway bulldozed down to river at lower boundary of polygon	
	200410058 OLD11	53.29	21.57	0	0.000	0.000			
	200410037 OLD12	7	2.83	0.005 0.0 0.00	0.000 0.0 0.00	0.000 0.0 0.00			
OM-09	200410040 CRW1	73.96	29.93			0.000	0.000	H.C. other creation of fish weirs.	
	200410064 CRW2	21.95	8.88	0.5 0.5 0.50	0.054 0.1 0.03	0.022 0.0 0.01			
OM-08	200410039 CAT1	32.76	13.26		0	0.000	0.000		
	200410060 CAT2	7.63	3.09	0 0.0 0.00	0.000 0.0 0.00	0.000 0.0 0.00			
OM-07	200410056 OLD17	62.36	25.24		0.975	0.608	0.246	Human-caused - dirt road and soil pit.	
	200410052 OLD18	186.91	75.64	0	0.000	0.000			
				1.0 0.49	0.6 0.30	0.2 0.12			

AENV Reach	ID No.	Polygon Name	Polygon Size		Other	area hc dist x %other hc		Explain "Other"
			acres	hectares		Area		
						% as a decimal	hectares	
OM-05	200110149 OLD1		28.16	11.4	0.975	2.471	1.000	Gravel road, paved highway, bridge construction, foot trails
	200410055 OLD15		11.21	4.54	0	0.000	0.000	
	200410066 OLD21		238.61	96.56	0	0.000	0.000	
					1.0	2.5	1.0	
OM-04					0.33	0.82	0.33	Gravel road, paved highway, bridge construction, foot trails
	200110104 OLD2		35.79	14.48	0	0.000	0.000	
	200410057 OLD13		1.53	0.62	0.8	0.004	0.001	
	200410042 OLD14		219.51	88.83	0.6	10.536	4.264	
					1.4	10.5	4.3	
OM-03					0.47	3.51	1.42	Trailing by vehicles
	200110106 OLD5		197.84	80.06	0.975	0.096	0.039	
					1.0	0.1	0.0	
					0.98	0.10	0.04	

AENV Reach	ID No.	Polygon Name	Polygon Size		Other	area hc dist x %other/hc		Explain "Other"
			acres	hectares		% as a decimal	hectares	
OM-02	200110150 OLD4		20.36	8.24		0	0.000	
	200110107 OLD7		9.84	3.98		0	0.000	
	200110108 OLD8		21.18	8.57		0	0.000	
	200110123 OLD9		12.23	4.95		0	0.000	
	200410051 OLD16		8.27	3.35		0.975	0.323	0.131
OM-01	200410043 OLD20		20.04	8.11		0.9	0.018	0.007
	200410053 OLD19		1.27	0.51		1.9	0.3	0.1
	200410090 OLD22		13.84	5.6		0.31	0.06	0.02
						0	0.000	0.000
						0	0.000	0.000
						0.0	0.0	0.0
						0.00	0.00	0.00
sum area all polygon areas			1289.28	521.75		32.91	13.32	
sum area all polygon areas/ number polygons			53.72	21.74		1.06	0.43	
						48.5%	48.5%	total area cause / total area of bare ground due to human causes

AENV Reach	I.D. Number	Polygon Name	Area		Breakdown of the polygon into % of the area in these land uses:									
			acres	hectares	No Land use	Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging	Mining
Total Polygons= 24			Sum of Polygons=		4	1	17	4	1	0	0	6	0	0
			Constancy=		16.7%	4.2%	70.8%	16.7%	4.2%	0.0%	0.0%	25.0%	0.0%	0.0%
OM-10	200110162 OLD10		3.74	1.51	97.5		97.5							
	200410058 OLD11		53.29	21.57			97.5							
	200410037 OLD12		7	2.83			97.5							
OM-09	200410040 CRW1		73.96	29.93		97.5	97.5							
	200410064 CRW2		21.95	8.88										0.5
OM-08	200410039 CAT1		32.76	13.26			97.5							
	200410060 CAT2		7.63	3.09			97.5							
OM-07	200410056 OLD17		62.36	25.24			97.5					0.5		
	200410052 OLD18		186.91	75.64			97.5							
OM-05	200110149 OLD1		28.16	11.4	50		97.5	30				20		
	200410055 OLD15		11.21	4.54	60		40							
	200410066 OLD21		238.61	96.56										
OM-04	200110104 OLD2		35.79	14.48			97.5	0.5				0.5		
	200410057 OLD13		1.53	0.62			97.5		3			10		
	200410042 OLD14		219.51	88.83			90							
OM-03	200110106 OLD5		197.84	80.06			97.5							
OM-02	200110150 OLD4		20.36	8.24										
	200110107 OLD7		9.84	3.98										
	200110108 OLD8		21.18	8.57			97.5							
	200110123 OLD9		12.23	4.95				97.5					3	
	200410051 OLD16		8.27	3.35	90			0.5						
OM-01	200410043 OLD20		20.04	8.11			97.5							
	200410053 OLD19		1.27	0.51			97.5							
	200410090 OLD22		13.84	5.6			97.5							

AENV Reach	I.D. Number	Polygon Name	Railroads	Other	Other Comments
Total Polygons= 24			0	5	
			0.0%	20.8%	
OM-10	200110162	OLD10			
	200410058	OLD11			
	200410037	OLD12			
OM-09	200410040	CRW1			
	200410064	CRW2			
OM-08	200410039	CAT1			
	200410060	CAT2			
OM-07	200410056	OLD17			
	200410052	OLD18			
OM-05	200110149	OLD1			
	200410055	OLD15			
	200410066	OLD21			
OM-04	200110104	OLD2			0.5 Pump
	200410057	OLD13			
	200410042	OLD14			
OM-03	200110106	OLD5			
OM-02	200110150	OLD4			Nature reserve, interpretive 97.5 walks
	200110107	OLD7			97.5 Nature reserve, gravel trails
	200110108	OLD8			
	200110123	OLD9			
	200410051	OLD16			
	200410043	OLD20			10 water pumps present for 0.5 irrigation
OM-01	200410053	OLD19			
	200410090	OLD22			

AENV Reach	I.D. Number	Polygon Name	Area		Breakdown of the area ADJACENT to the polygon into % of these land uses:										
			acres	hectares	No Land use	Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging	Mining	
OM-10	Total Polygons= 24				Sum of Polygons=	Constancy=	1	0	13	5	2	3	0	10	0
	200110162 OLD10			3.74	1.51					97.5					
	200410058 OLD11			53.29	21.57					70		30			
	200410037 OLD12		7	2.83						97.5					
OM-09	200410040 CRW1			73.96	29.93						3			70	
	200410064 CRW2			21.95	8.88					97.5				3	
OM-08	200410039 CAT1			32.76	13.26					97.5	0.5				
	200410060 CAT2			7.63	3.09					97.5					
OM-07	200410056 OLD17			62.36	25.24					97.5				3	
	200410052 OLD18			186.91	75.64					90	0.5			10	
OM-05	200110149 OLD1			28.16	11.4	50				30				20	
	200410055 OLD15			11.21	4.54					97.5				0.5	
	200410066 OLD21			238.61	96.56					97.5					
OM-04	200110104 OLD2			35.79	14.48					10	0.5				
	200410057 OLD13			1.53	0.62					20		80		3	
	200410042 OLD14			219.51	88.83					60		20		20	
OM-03	200110106 OLD5			197.84	80.06						80		20		
OM-02	200110150 OLD4			20.36	8.24							20		30	
	200110107 OLD7			9.84	3.98					97.5					
	200110108 OLD8			21.18	8.57					50					
	200110123 OLD9			12.23	4.95						50	30		20	
	200410051 OLD16			8.27	3.35	90					0.5	10			
	200410043 OLD20			20.04	8.11					10			90	3	
OM-01	200410053 OLD19			1.27	0.51					97.5				0.5	
	200410090 OLD22			13.84	5.6					50		50			

AENV Reach	I.D. Number	Polygon Name	Railroads	Other	Other Comments
Total Polygons= 24 <div> <div>1</div> <div>4.2%</div> <div>0</div> <div>0.0%</div> </div>					
OM-10	200110162	OLD10			
	200410058	OLD11			
	200410037	OLD12			
OM-09	200410040	CRW1	30		Hwy #3 and railroad tracks
	200410064	CRW2			
OM-08	200410039	CAT1			
	200410060	CAT2			
OM-07	200410056	OLD17			
	200410052	OLD18			
OM-05	200110149	OLD1			
	200410055	OLD15			
	200410066	OLD21			
OM-04	200110104	OLD2			
	200410057	OLD13			
	200410042	OLD14			
OM-03	200110106	OLD5			
OM-02	Picnic areas, recreational 50 walking, biking trails 50 Nature reserve				
	200110150	OLD4			
	200110107	OLD7			
	200110108	OLD8			
	200110123	OLD9			
	200410051	OLD16			
OM-01	200410043	OLD20			
	200410053	OLD19			
OM-01	200410090	OLD22			0.5 Gas well (capped)

Summary of Waterbody Characteristics by AENV Reach - SSRB 2004

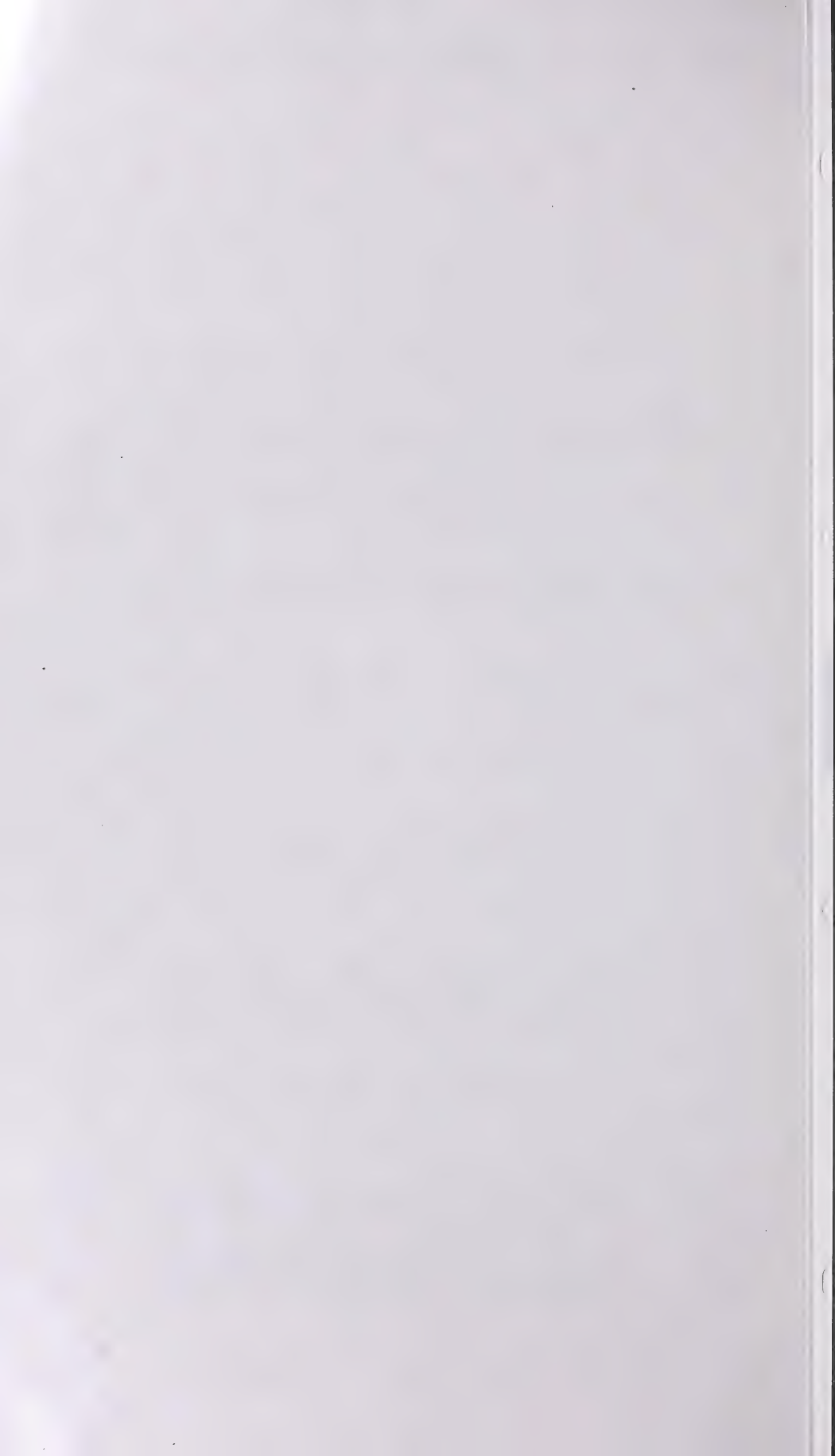
AENV Reach	Polygon ID Number	Polygon Name	Date Inventoried	System Name	System Type	Dominant Channel Bottom
OM-10	200110162	OLD10	10/8/01	Oldman River	Perennial Stream	Small boulder
	200410058	OLD11	6/7/04	Oldman River	River	-
	200410037	OLD12	8/7/04	Oldman River	River	-
OM-09	200410040	CRW1	6/30/2004	Crowsnest River	River	-
	200410064	CRW2	7/7/04	Crowsnest River	River	-
OM-08	200410039	CAT1	6/30/2004	Castle River	River	-
	200410060	CAT2	6/7/04	Castle River	River	-
OM-07	200410056	OLD17	7/13/2004	Oldman River	River	-
	200410052	OLD18	7/14/2004	Oldman River	River	Small cobble
OM-05	200110149	OLD1	6/8/01	Oldman River	Perennial Stream	Small cobble
	200410055	OLD15	12/7/04	Oldman River	River	-
	200410066	OLD21	7/22/2004	Oldman River	River	-
OM-04	200110104	OLD2	7/8/01	Oldman River	River	Small cobble
	200410057	OLD13	12/7/04	Oldman River	River	-
	200410042	OLD14	7/15/2004	Oldman River	River	-
OM-03	200110106	OLD5	8/8/01	Oldman River	River	-
OM-02	200110150	OLD4	8/8/01	Oldman River	River	Fine gravel
	200110107	OLD7	9/8/01	Oldman River	River	Small cobble
	200110108	OLD8	9/8/01	Oldman River	River	Small cobble
	200110123	OLD9	9/8/01	Oldman River	River	-
	200410051	OLD16	12/7/04	Oldman River	River	-
	200410043	OLD20	7/15/2004	Oldman River	River	Coarse gravel
OM-01	200410053	OLD19	7/15/2004	Oldman River	River	-
	200410090	OLD22	7/29/2004	Oldman River	River	-

AENV Reach	Polygon ID Number	Polygon Name	Unstable Banks	Deep Binding Rootmass	Downcutting	Headcuts	Polygon Bare Ground	Structurally Altered Banks	Pugging and Hummocking	Channel Incisement	Lateral Cutting
OM-10	200110162	OLD10	0-5% over 85%	0.00%	0.00%	0	3.00%	0.50%	0.00%	A	0.00%
	200410058	OLD11	over 45% 0-35%	0.00%	0.00%	0	20.00%	0.50%	0.50%	A	30.00%
	200410037	OLD12	6-25% 0-35%	0.00%	0.00%	0	20.00%	0.50%	0.50%	A	20.00%
OM-09	200410040	CRW1	over 45% 0-35%	0.00%	0.00%	0	0.50%	97.50%	10.00%	B	70.00%
	200410064	CRW2	over 45% 36-65%	0.00%	0.00%	0	0.50%	40.00%	0.50%	A	60.00%
OM-08	200410039	CAT1	6-25% 66-85%	0.00%	0.00%	0	3.00%	0.50%	0.50%	A	20.00%
	200410060	CAT2	6-25% 36-65%	0.00%	0.00%	0	10.00%	0.50%	0.50%	A	20.00%
OM-07	200410056	OLD17	6-25% over 85%	0.00%	0.00%	0	10.00%	0.00%	0.50%	A	10.00%
	200410052	OLD18	26-45% 66-85%	0.00%	0.00%	0	10.00%	0.00%	0.00%	A	40.00%
OM-05	200110149	OLD1	6-25% 0-35%	0.00%	0.00%	0	10.00%	80.00%	0.50%	A	3.00%
	200410055	OLD15	6-25% 66-85%	0.00%	0.00%	0	3.00%	0.50%	0.00%	A	50.00%
	200410066	OLD21	26-45% over 85%	0.00%	0.00%	0	10.00%	0.00%	0.50%	A	10.00%
OM-04	200110104	OLD2	over 45% 36-65%	0.00%	0.00%	0	20.00%	0.50%	0.00%	B	70.00%
	200410057	OLD13	over 45% 36-65%	0.00%	0.00%	0	0.50%	0.50%	0.00%	A	70.00%
	200410042	OLD14	6-25% over 85%	0.00%	0.00%	0	10.00%	0.50%	0.50%	A	0.00%
OM-03	200110106	OLD5	0-5% 36-65%	0.00%	0.00%	0	10.00%	0.00%	0.00%	B	3.00%
OM-02	200410051	OLD16	6-25% over 85%	0.00%	0.00%	0	10.00%	30.00%	0.00%	A	10.00%
	200410043	OLD20	0-5% over 85%	0.00%	0.00%	0	20.00%	0.50%	0.50%	A	0.00%
	200110150	OLD4	26-45% 66-85%	0.00%	0.00%	0	10.00%	3.00%	0.00%	B	50.00%
	200110107	OLD7	6-25% 66-85%	0.00%	0.00%	0	3.00%	0.50%	0.50%	B	30.00%
	200110108	OLD8	0-5% 36-65%	0.00%	0.00%	0	20.00%	3.00%	3.00%	B	3.00%
	200110123	OLD9	over 45% 36-65%	0.00%	0.00%	0	10.00%	10.00%	0.00%	B	50.00%
OM-01	200410053	OLD19	over 45% 0-35%	0.00%	0.00%	0	3.00%	0.50%	0.50%	A	0.00%
	200410090	OLD22	0-5% 0-35%	0.00%	0.00%	0	30.00%	10.00%	0.50%	A	0.00%

Overall Site Summary: 28.40% 60.00% 0.00% 0 10.20% 9.60% 0.90% A 24.50%

AENV Reach	Polygon ID Number	Polygon Name	Acres	Hectares	River		Average Acres/River Kilometer	Average		Minimum	Maximum	
					Miles	Kilometers		Riparian Zone Width	Riparian Zone Width		Riparian Zone Width	Riparian Zone Width
OM-10	200110162	OLD10	3.74	1.51	0.47	0.76	4.92	20	2	75		
	200410058	OLD11	53.29	21.57	0.67	1.08	49.34	200	1	260		
	200410037	OLD12	7	2.83	0.44	0.71	9.86	40	5	60		
OM-09	200410040	CRW1	73.96	29.93	0.62	1	73.96	300	150	400		
	200410064	CRW2	21.95	8.88	0.69	1.11	19.77	80	40	240		
OM-08	200410039	CAT1	32.76	13.26	1.03	1.66	19.73	80	5	120		
	200410060	CAT2	7.63	3.09	0.64	1.03	7.41	30	10	60		
OM-07	200410056	OLD17	62.36	25.24	0.49	0.79	78.94	320	150	520		
	200410052	OLD18	186.91	75.64	0.94	1.51	123.78	500	20	660		
OM-05	200110149	OLD1	28.16	11.4	0.59	0.95	29.64	120	80	160		
	200410055	OLD15	11.21	4.54	0.94	1.51	7.42	30	3	75		
	200410066	OLD21	238.61	96.56	1	1.61	148.2	600	16	749.8		
OM-04	200110104	OLD2	35.79	14.48	0.75	1.21	29.58	120	10	200		
	200410057	OLD13	1.53	0.62	0.77	1.24	1.23	5	2	30		
	200410042	OLD14	219.51	88.83	1.38	2.22	98.88	400	20	600		
OM-03	200110150	OLD4	20.36	8.24	0.64	1.03	19.77	80	15	120		
OM-02	200410051	OLD16	8.27	3.35	0.52	0.84	9.85	40	3	80		
	200410043	OLD20	20.04	8.11	0.63	1.01	19.84	80	20	120		
	200110106	OLD5	197.84	80.06	1.99	3.2	61.83	250	5	400		
	200110107	OLD7	9.84	3.98	0.33	0.53	18.57	75	12	100		
	200110108	OLD8	21.18	8.57	0.71	1.14	18.58	75	10	100		
	200110123	OLD9	12.23	4.95	0.41	0.66	18.53	75	10	110		
OM-01	200410053	OLD19	1.27	0.51	0.32	0.51	2.49	10	8	15		
	200410090	OLD22	13.84	5.6	0.58	0.93	14.88	60	50	70		

AENV Reach	ID No.	Polygon Number	Length of streambank/polygon inventoried		Are bank materials present (Yes/No/NA)	>20 inches (med boulders)	10-20 inches (small boulders)	5-10 inches (Large cobbles)	2.5-5 inches (small cobbles)	0.6-2.5 inches (coarse gravel)	0.08-0.6 inches (fine gravel)	0.062-2mm (sand)
			(km)	(miles)								
OM-10	200110162	OLD10	0.76	0.47	Yes	30	30	10	3	20	3	0.5
	200410058	OLD11	1.08	0.67	Yes	0.5	3	10	20	3	3	10
	200410037	OLD12	0.71	0.44	Yes	10	10	20	10	10	10	10
OM-09	200410040	CRW1	1	0.62	Yes	0	0	0.5	0.5	3	10	20
	200410064	CRW2	1.11	0.69	Yes	3	0.5	0.5	3	10	10	20
	200410039	CAT1	1.66	1.03	Yes	10	10	10	10	10	10	20
OM-08	200410060	CAT2	1.03	0.64	Yes	20	3	3	20	10	20	10
	200410056	OLD17	0.79	0.49	Yes	0.5	0.5	10	20	3	3	20
	200410052	OLD18	1.51	0.94	Yes	0.5	0.5	10	30	20	10	20
OM-07	200110149	OLD1	0.95	0.59	Yes	3	10	10	10	10	30	20
	200410055	OLD15	1.51	0.94	Yes	3	3	3	10	10	10	20
	200410066	OLD21	1.61	1	Yes	0	0.5	0.5	0.5	30	20	0.5
OM-06	200110104	OLD2	1.21	0.75	Yes	0.5	0.5	3	30	10	10	50
	200410057	OLD13	1.24	0.77	Yes	3	3	0.5	20	0.5	0.5	30
	200410042	OLD14	2.22	1.38	Yes	0.5	0.5	10	30	20	10	20
OM-03	200110106	OLD5	3.2	1.99	Yes	0	0	0.5	10	30	3	40
	200110150	OLD4	1.03	0.64	Yes	0.5	0.5	10	30	20	3	40
	200110107	OLD7	0.53	0.33	Yes	0.5	3	20	40	10	3	10
OM-02	200110108	OLD8	1.14	0.71	Yes	3	10	30	20	20	3	0.5
	200110123	OLD9	0.66	0.41	Yes	0	0	30	20	10	3	40
	200410051	OLD16	0.84	0.52	Yes	3	3	3	3	0.5	0.5	30
OM-01	200410043	OLD20	1.01	0.63	Yes	0	0	0.5	10	40	30	10
	200410053	OLD19	0.51	0.32	Yes	0.5	0.5	10	10	0.5	0.5	20
	200410090	OLD22	0.93	0.58	Yes	0.5	0.5	3	20	50	3	20



Number of Polygons= 10

AENV Reach	ID No.	Polygon	Cottonwood Regeneration from Seed		Regeneration of Other Tree Species		Preferred Shrub Species Establishment and Regeneration		Standing Decadent and Dead Woody Material		Preferred Tree and Shrub Species Utilisation		Total Canopy Cover of Woody Species		Invasive Herbaceous Species Canopy Cover		Invasive Herbaceous Species Density Distribution	
			1		2		3		4		5		6		7a		7b	
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
BL-05	200410083 BEL9	6	6	3	3	3	3	3	2	3	2	3	3	3	2	3	1	3
	200410084 BEL10	2	6	1	3	2	3	2	3	0	3	3	3	2	3	0	3	
	Average Score:	4.0	6.0	2.0	3.0	2.5	3.0	2.0	3.0	1.0	3.0	3.0	3.0	2.0	3.0	0.5	3.0	
	Average Percent:	67%		67%		83%		67%		33%		100%		67%		17%		
BL-04	200410045 BEL1	6	6	0	0	3	3	3	3	2	3	3	3	1	3	0	3	
	200410070 BEL6	6	6	0	0	3	3	3	3	2	3	3	3	1	3	0	3	
	Average Score:	6.0	6.0	0.0	0.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0	1.0	3.0	0.0	3.0	
	Average Percent:	100%		0%		100%		100%		67%		100%		33%		0%		
BL-03	200410081 BEL7	6	6	0	0	3	3	3	3	1	3	3	3	1	3	0	3	
	200410082 BEL8	6	6	0	0	3	3	3	2	3	1	3	3	1	3	0	3	
	Average Score:	6.0	6.0	0.0	0.0	3.0	3.0	2.5	3.0	1.0	3.0	3.0	3.0	1.0	3.0	0.0	3.0	
	Average Percent:	100%		0%		100%		83%		33%		100%		33%		0%		
BL-02	200410044 BEL2	6	6	0	0	3	3	3	3	2	3	3	3	2	3	1	3	
	200410069 BEL5	6	6	0	0	3	3	3	2	3	2	3	3	2	3	1	3	
	Average Score:	6.0	6.0	0.0	0.0	3.0	3.0	2.5	3.0	2.0	3.0	3.0	3.0	2.0	3.0	1.0	3.0	
	Average Percent:	100%		0%		100%		83%		67%		100%		67%		33%		
BL-01	200410048 BEL3	2	6	0	0	3	3	3	1	3	2	3	3	0	3	0	3	
	200410068 BEL4	6	6	0	0	3	3	3	3	2	3	3	3	1	3	0	3	
	Average Score:	4.0	6.0	0.0	0.0	3.0	3.0	2.0	3.0	2.0	3.0	3.0	3.0	0.5	3.0	0.0	3.0	
	Average Percent:	67%		0%		100%		67%		67%		100%		17%		0%		
Average Overall Score			5.2	6.0	0.4	0.6	2.9	3.0	2.4	3.0	1.6	3.0	3.0	3.0	1.3	3.0	0.3	3.0
Average Overall Percent			86.7%		66.7%		96.7%		80.0%		53.3%		100.0%		43.3%		10.0%	

Summary of health parameters by category:
Healthy: 8
Healthy but with problems: 0
Unhealthy: 2

Number of Polygons=

AENV Reach	ID No.	Polygon	Disturbance-Increaser Undesirable Herbaceous Species		Presence of Native Graminoids		Exotic Undesirable Woody Species		Riverbank Root Mass Protection		Human-Caused Bare Ground		Dewatering of the River System		Control of Flood Peak and Timing by Upstream Dam(s)		Human Alterations to the Riverbanks	
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
BL-05	200410083 BEL9		1	3	1	3	3	3	6	6	6	6	9	9	9	9	9	9
	200410084 BEL10		1	3	0	3	3	3	0	6	2	6	9	9	9	9	3	9
	Average Score:	1.0	3.0	0.5	3.0	3.0	3.0	3.0	3.0	6.0	4.0	6.0	9.0	9.0	9.0	6.0	6.0	9.0
	Average Percent:	33%		17%		100%		50%		67%		100%		100%		67%		
BL-04	200410045 BEL1		0	3	1	3	3	3	6	6	4	6	6	9	9	9	9	9
	200410070 BEL6		1	3	1	3	3	3	4	6	6	6	9	9	9	9	9	9
	Average Score:	0.5	3.0	1.0	3.0	3.0	3.0	3.0	5.0	6.0	5.0	6.0	6.0	9.0	9.0	9.0	9.0	9.0
	Average Percent:	17%		33%		100%		83%		83%		67%		100%		100%		
BL-03	200410081 BEL7		0	3	2	3	3	3	6	6	6	6	0	9	9	9	9	9
	200410082 BEL8		0	3	2	3	3	3	6	6	6	6	0	9	9	9	6	9
	Average Score:	0.0	3.0	2.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	0.0	9.0	9.0	7.5	9.0	9.0
	Average Percent:	0%		67%		100%		100%		100%		0%		100%		83%		
BL-02	200410044 BEL2		0	3	1	3	3	3	6	6	6	6	0	9	9	9	9	9
	200410069 BEL5		1	3	1	3	3	3	6	6	6	6	0	9	9	9	9	9
	Average Score:	0.5	3.0	1.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0	0.0	9.0	9.0	9.0	9.0	9.0
	Average Percent:	17%		33%		100%		100%		100%		0%		100%		100%		
BL-01	200410048 BEL3		0	3	1	3	3	3	4	6	6	6	0	9	9	9	9	9
	200410068 BEL4		0	3	2	3	3	3	6	6	6	6	0	9	9	9	9	9
	Average Score:	0.0	3.0	1.5	3.0	3.0	3.0	3.0	5.0	6.0	6.0	6.0	0.0	9.0	9.0	9.0	9.0	9.0
	Average Percent:	0%		50%		100%		83%		100%		0%		33%		100%		
Average Overall Score			0.4	3.0	1.2	3.0	3.0	3.0	5.0	6.0	5.4	6.0	3.0	9.0	7.8	9.0	8.1	9.0
Average Overall Percent			13.3%	40.0%			100.0%		83.3%		90.0%		33.3%		86.7%		90.0%	
Summary of health parameters by category:																		
Healthy:			0	0			10		7		8		2		8		8	
Healthy but with problems:			0	3			0		2		1		2		0		1	
Unhealthy:			10	7			0		1		1		6		2		1	

Number of Polygons=

AENV Reach	ID No.	Polygon	Floodplain Accessibility		Vegetation		Soil/Hydrology		Soil/Hydrology Percent		Overall %		Overall Health Category
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	
BL-05	200410083 BEL9	6	6	27	36	75%	45	45	100%	72	81	89%	Proper Functioning Condition (Healthy)
	200410084 BEL10	6	6	16	36	44%	29	45	64%	45	81	56%	Nonfunctional (Unhealthy)
	Average Score:	6.0	6.0	21.5	36.0	60%	37.0	45.0	82%	58.5	81.0	72%	
	Average Percent:	100%		60%		82%		72%					
BL-04	200410045 BEL1	6	6	22	33	67%	40	45	89%	62	78	79%	Functional At Risk (Healthy, but with Problems)
	200410070 BEL6	6	6	23	33	70%	40	45	89%	63	78	81%	Proper Functioning Condition (Healthy)
	Average Score:	6.0	6.0	22.5	33.0	68%	40.0	45.0	89%	62.5	78.0	80%	
	Average Percent:	100%		68%		89%		80%					
BL-03	200410081 BEL7	6	6	22	33	67%	36	45	80%	58	78	74%	Functional At Risk (Healthy, but with Problems)
	200410082 BEL8	6	6	21	33	64%	33	45	73%	54	78	69%	Functional At Risk (H
	Average Score:	6.0	6.0	21.5	33.0	65%	34.5	45.0	77%	56.0	78.0	72%	
	Average Percent:	100%		65%		77%		72%					
BL-02	200410044 BEL2	6	6	24	33	73%	36	45	80%	60	78	77%	Functional At Risk (Healthy, but with Problems)
	200410089 BEL5	6	6	24	33	73%	36	45	80%	60	78	77%	Functional At Risk (Healthy, but with Problems)
	Average Score:	6.0	6.0	24.0	33.0	73%	36.0	45.0	80%	60.0	78.0	77%	
	Average Percent:	100%		73%		80%		77%					
BL-01	200410048 BEL3	6	6	15	33	45%	28	45	62%	43	78	55%	Nonfunctional (Unhealthy)
	200410068 BEL4	6	6	23	33	70%	30	45	67%	53	78	68%	Functional At Risk (Healthy, but with Problems)
	Average Score:	6.0	6.0	19.0	33.0	58%	29.0	45.0	64%	48.0	78.0	62%	
	Average Percent:	100%		58%		64%		62%					
Average Overall Score			6.0	6.0	21.7	33.6	65%	35.3	45.0	78.6	73%		
Average Overall Percent			100.0%				78%						
Summary of health parameters by category:													
Healthy:			10	Number of Sites per Health Category:									
Healthy but with problems:			0	Overall%		Count		Health Category					
Unhealthy:			0	20.0%	2	healthy (proper functioning condition)		2	healthy, but with problems (functional at risk)				
				60.0%	6	healthy, but with problems (functional at risk)		6	unhealthy (nonfunctional)				
				20.0%	2	unhealthy (nonfunctional)		2					
				100.0%									

AENV	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Trees			Shrubs			Grams							
					Canopy Cover	Polygon Size x % Canopy Cover of Trees		Canopy Cover	Polygon Size x % Canopy Cover of Shrubs		Canopy Cover	Polygon Size x % Canopy Cover of Graminoids						
						Area covered (acres)	Area covered (hect)		(% as a decimal)	Area covered (acres)		Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)			
BL-05	200410083 BEL9		104.38	42.24	0.7	73.07	29.57	0.9	93.94	38.02	0.2	20.88	8.45					
	200410084 BEL10		27.83	11.26	0.3	8.35	3.38	0.6	16.70	6.76	0.3	8.35	3.38					
		Reach Total:	132.21	53.50		81.42	32.95		110.64	44.77		29.23	11.83					
		Reach Average:	66.11	26.75		40.71	16.47		55.32	22.39		14.61	5.91					
BL-04	200410045 BEL1		36.99	14.97	0.7	25.89	10.48	0.3	11.10	4.49	0.6	22.19	8.98					
	200410070 BEL6		62.63	25.35	0.7	43.84	17.75	0.2	12.53	5.07	0.5	31.32	12.68					
		Reach Total:	99.62	40.32		69.73	28.22		23.62	9.56		53.51	21.66					
		Reach Average:	49.81	20.16		34.87	14.11		11.81	4.78		26.75	10.83					
BL-03	200410081 BEL7		45.33	18.34	0.6	27.20	11.00	0.4	18.13	7.34	0.7	31.73	12.84					
	200410082 BEL8		55.11	22.3	0.2	11.02	4.46	0.9	49.60	20.07	0.7	38.58	15.61					
		Reach Total:	100.44	40.64		38.22	15.46		67.73	27.41		70.31	28.45					
		Reach Average:	50.22	20.32		19.11	7.73		33.87	13.70		35.15	14.22					
BL-02	200410044 BEL2		27.92	11.3	0.4	11.17	4.52	0.6	16.75	6.78	0.8	22.34	9.04					
	200410069 BEL5		141.14	57.12	0.7	98.80	39.98	0.975	137.61	55.69	0.6	84.68	34.27					
		Reach Total:	169.06	68.42		109.97	44.50		154.36	62.47		107.02	43.31					
		Reach Average:	84.53	34.21		54.98	22.25		77.18	31.24		53.51	21.66					
BL-01	200410048 BEL3		65.22	26.39	0.7	45.65	18.47	0.8	52.18	21.11	0.9	58.70	23.75					
	200410068 BEL4		264.86	107.19	0.6	158.92	64.31	0.9	238.37	96.47	0.9	238.37	96.47					
		Reach Total:	330.08	133.58		204.57	82.79		290.55	117.58		297.07	120.22					
		Reach Average:	165.04	66.79		102.29	41.39		145.28	58.79		148.54	60.11					
					Overall %													
Overall total			831.41	336.46										557.13			225.47	
Overall average			83.14	33.65										55.71			22.55	
															67.0%			67.0%
					Overall total tree acres/overall total polygon acres									Overall total graminoid acres/overall total polygon acres				
Overall total			646.91	261.79										557.13			225.47	
Overall average			64.69	26.18										55.71			22.55	
			77.8%	77.8%										67.0%			67.0%	
					Overall total shrub acres/overall total polygon acres									Overall total graminoid acres/overall total polygon acres				

AENV	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Forbs			Total Woodyies			Total all plant lifeforms		
					Canopy Cover (% as a decimal)	Polygon Size x % Canopy Cover of Forbs (acres)	Area covered (hect)	Canopy Cover (% as a decimal)	Polygon Size x % Canopy Cover of Total Woodyies (acres)	Area covered (hect)	Canopy Cover (% as a decimal)	Polygon Size x % Canopy Cover of Total all Plant lifeforms (acres)	Area covered (hect)
BL-05	200410083 BEL9		104.38	42.24	0.3	31.31	12.67	0.975	101.77	41.18	0.975	101.77	41.18
	200410084 BEL10		27.83	11.26	0.2	5.57	2.25	0.6	16.70	6.76	0.7	19.48	7.88
		Reach Total:	132.21	53.50		36.88	14.92		118.47	47.94		121.25	49.07
BL-04		Reach Average:	66.11	26.75		18.44	7.46		59.23	23.97		60.63	24.53
	200410045 BEL1		36.99	14.97	0.3	11.10	4.49	0.8	29.59	11.98	0.9	33.29	13.47
	200410070 BEL6		62.63	25.35	0.1	6.26	2.54	0.8	50.10	20.28	0.9	56.37	22.82
BL-03		Reach Total:	99.62	40.32		17.36	7.03		79.70	32.26		89.66	36.29
		Reach Average:	49.81	20.16		8.68	3.51		39.85	16.13		44.83	18.14
	200410081 BEL7		45.33	18.34	0.3	13.60	5.50	0.7	31.73	12.84	0.975	44.20	17.88
BL-02	200410082 BEL8		55.11	22.3	0.3	16.53	6.69	0.9	49.60	20.07	0.975	53.73	21.74
		Reach Total:	100.44	40.64		30.13	12.19		81.33	32.91		97.93	39.62
		Reach Average:	50.22	20.32		15.07	6.10		40.67	16.45		48.96	19.81
BL-01	200410044 BEL2		27.92	11.3	0.1	2.79	1.13	0.6	16.75	6.78	0.975	27.22	11.02
	200410069 BEL5		141.14	57.12	0.2	28.23	11.42	0.975	137.61	55.69	0.975	137.61	55.69
		Reach Total:	169.06	68.42		31.02	12.55		154.36	62.47		164.83	66.71
BL-01		Reach Average:	84.53	34.21		15.51	6.28		77.18	31.24		82.42	33.35
	200410048 BEL3		65.22	26.39	0.2	13.04	5.28	0.8	52.18	21.11	0.975	63.59	25.73
	200410068 BEL4		264.86	107.19	0.3	79.46	32.16	0.9	238.37	96.47	0.975	258.24	104.51
BL-01		Reach Total:	330.08	133.58		92.50	37.44		290.55	117.58		321.83	130.24
		Reach Average:	165.04	66.79		46.25	18.72		145.28	58.79		160.91	65.12
Overall total			831.41	336.46		207.89	84.13		724.41	293.16		795.50	321.93
Overall average			83.14	33.65		20.79	8.41		72.44	29.32		79.55	32.19
						25.0%	25.0%		87.1%	87.1%		95.7%	95.7%
			Overall total forbs acres/overall total polygon acres										
			Overall total woodyies acres/overall total polygon acres										

Life Form	Plant Status ¹	area across x 0.41		Percent Canopy Cover ²		Constancy ³
		Area by Species		Avg	Range	
		acres	hectares area sp across* 0.41			
TREES						
narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	233.97	94.76	32.20%	0.00% 60.00%	90.00%
balsam poplar (<i>Populus balsamifera</i>)	native	217.88	88.24	26.20%	10.00% 60.00%	100.00%
aspen (<i>Populus tremuloides</i>)	native	31.31	12.68	30.00%	0.00% 30.00%	10.00%
white spruce (<i>Picea glauca</i>)	native	21.71	8.79	16.40%	0.00% 20.00%	20.00%
limber pine (<i>Pinus flexilis</i>)	native	0.14	0.06	0.50%	0.00% 0.50%	10.00%
Douglas-fir (<i>Pseudotsuga menziesii</i>)	native	0.14	0.06	0.50%	0.00% 0.50%	10.00%
Total area covered by TREE species =		505.2	204.6			
SHRUBS						
choke cherry (<i>Prunus virginiana</i>)	native	169.65	68.71	23.20%	0.00% 40.00%	80.00%
Saskatoon (<i>Amelanchier alnifolia</i>)	native	145.5	58.93	19.90%	0.00% 40.00%	80.00%
water birch (<i>Betula occidentalis</i>)	native	106.74	43.23	12.80%	0.50% 20.00%	100.00%
buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	66.59	26.97	8.00%	0.50% 20.00%	100.00%
silverberry (<i>Elaeagnus commutata</i>)	native	61.73	25.00	7.40%	3.00% 20.00%	100.00%
red-osier dogwood (<i>Cornus stolonifera</i>)	native	50.93	20.63	7.00%	0.00% 20.00%	80.00%
common wild rose (<i>Rosa woodsii</i>)	native	38.87	15.74	5.30%	0.00% 20.00%	80.00%
sandbar willow (<i>Salix exigua</i>)	native	37.48	15.18	4.70%	0.00% 10.00%	90.00%
beaked willow (<i>Salix bebbiana</i>)	native	33.92	13.74	5.10%	0.00% 50.00%	70.00%
yellow willow (<i>Salix lutea</i>)	native	11.91	4.82	1.60%	0.00% 3.00%	80.00%
thorny buffaloberry (<i>Shepherdia argentea</i>)	native	8.46	3.43	1.20%	0.00% 3.00%	70.00%
creeping juniper (<i>Juniperus horizontalis</i>)	native	6.15	2.49	4.20%	0.00% 20.00%	30.00%
shining willow (<i>Salix lucida</i>)	native	3.54	1.43	1.90%	0.00% 3.00%	30.00%
pussy willow (<i>Salix discolor</i>)	native	3.46	1.40	2.00%	0.00% 3.00%	20.00%
green alder (<i>Alnus crispa</i>)	native	3.13	1.27	3.00%	0.00% 3.00%	10.00%
bracted honeysuckle (<i>Lonicera involucrata</i>)	native	3.13	1.27	3.00%	0.00% 3.00%	10.00%
yellow mountain avens (<i>Dryas drummondii</i>)	native	2.78	1.13	10.00%	0.00% 10.00%	10.00%
western clematis (<i>Clematis ligusticifolia</i>)	native	2.72	1.10	0.50%	0.00% 0.50%	50.00%
peach-leaved willow (<i>Salix amygdaloides</i>)	native	2.36	0.96	0.50%	0.00% 0.50%	30.00%
prickly rose (<i>Rosa acicularis</i>)	native	2.14	0.87	2.10%	0.00% 3.00%	20.00%
common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	1.37	0.55	0.50%	0.00% 0.50%	30.00%
shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	1.2	0.49	0.50%	0.00% 0.50%	40.00%
northern gooseberry (<i>Ribes oxycanthoides</i>)	native	1.01	0.41	0.50%	0.00% 0.50%	40.00%
ground juniper (<i>Juniperus communis</i>)	native	0.85	0.34	0.50%	0.00% 0.50%	30.00%
Canada buffaloberry (<i>Shepherdia canadensis</i>)	native	0.83	0.34	3.00%	0.00% 3.00%	10.00%
creeping mahonia (<i>Berberis repens</i>)	native	0.66	0.27	0.50%	0.00% 0.50%	20.00%
wild red raspberry (<i>Rubus idaeus</i>)	native	0.66	0.27	0.50%	0.00% 0.50%	20.00%
bog birch (<i>Betula glandulosa</i>)	native	0.52	0.21	0.50%	0.00% 0.50%	10.00%
thimbleberry (<i>Rubus parviflorus</i>)	native	0.52	0.21	0.50%	0.00% 0.50%	10.00%
hoary willow (<i>Salix candida</i>)	native	0.52	0.21	0.50%	0.00% 0.50%	10.00%
false mountain willow (<i>Salix pseudomonticola</i>)	native	0.52	0.21	0.50%	0.00% 0.50%	10.00%
willow (<i>Salix</i> spp.)	native	0.52	0.21	0.50%	0.00% 0.50%	10.00%
round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.5	0.20	0.50%	0.00% 0.50%	20.00%
skunkbush (<i>Rhus trilobata</i>)	native	0.33	0.13	0.50%	0.00% 0.50%	10.00%
basket willow (<i>Salix petiolaris</i>)	native	0.23	0.09	0.50%	0.00% 0.50%	10.00%
white meadowsweet (<i>Spiraea betulifolia</i>)	native	0.14	0.06	0.50%	0.00% 0.50%	10.00%
Total area covered by SHRUBS species =		771.6	312.5			
GRASSES AND GRASS-LIKES						
smooth brome (<i>Bromus inermis</i>)	disturbance	223.86	90.66	27.90%	0.00% 70.00%	90.00%
quack grass (<i>Agropyron repens</i>)	disturbance	101.52	41.12	12.60%	0.00% 20.00%	90.00%
Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	96.05	38.90	12.50%	0.00% 30.00%	90.00%
western wheat grass (<i>Agropyron smithii</i>)	native	74.12	30.02	10.60%	0.00% 20.00%	80.00%
redtop (<i>Agrostis stolonifera</i>)	introduced	59.76	24.20	7.20%	0.50% 20.00%	100.00%
timothy (<i>Phleum pratense</i>)	disturbance	35.42	14.35	4.30%	0.50% 10.00%	100.00%
foxtail barley (<i>Hordeum jubatum</i>)	disturbance	10.12	4.10	1.40%	0.00% 3.00%	80.00%
green needle grass (<i>Stipa viridula</i>)	native	9.9	4.01	1.60%	0.00% 3.00%	70.00%
Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	9.74	3.94	2.80%	0.00% 3.00%	30.00%
slender wheat grass (<i>Agropyron trachycaulum</i>)	native	8.08	3.27	2.80%	0.00% 3.00%	20.00%
blue grama (<i>Bouteloua gracilis</i>)	native	7.95	3.22	3.00%	0.00% 3.00%	10.00%
reed canary grass (<i>Phalaris arundinacea</i>)	native	6.19	2.51	2.00%	0.00% 3.00%	50.00%
needle-and-thread (<i>Stipa comata</i>)	native	4.37	1.77	2.60%	0.00% 3.00%	20.00%
bluejoint (<i>Calamagrostis canadensis</i>)	native	3.29	1.33	0.50%	0.00% 0.50%	70.00%
Canada wild rye (<i>Elymus canadensis</i>)	native	2.67	1.08	0.50%	0.00% 0.50%	50.00%
June grass (<i>Koeleria macrantha</i>)	native	2.48	1.00	0.50%	0.00% 0.50%	40.00%
wire rush (<i>Juncus balticus</i>)	native	2.37	0.96	0.50%	0.00% 0.50%	70.00%
downy chess (<i>Bromus tectorum</i>)	invasive	2.18	0.88	0.90%	0.00% 3.00%	40.00%
rush (<i>Juncus</i> spp.)	native	1.91	0.77	0.50%	0.00% 0.50%	50.00%
sand grass (<i>Calamoviola longifolia</i>)	native	1.88	0.76	0.50%	0.00% 0.50%	30.00%
tufted hair grass (<i>Deschampsia cespitosa</i>)	native	1.86	0.75	0.50%	0.00% 0.50%	50.00%
small bottle sedge (<i>Carex utriculata</i>)	native	1.83	0.74	0.50%	0.00% 0.50%	50.00%
hairy wild rye (<i>Elymus innovatus</i>)	native	1.65	0.67	0.50%	0.00% 0.50%	20.00%
small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	1.39	0.56	0.50%	0.00% 0.50%	40.00%
fowl bluegrass (<i>Poa palustris</i>)	native	1.36	0.55	3.00%	0.00% 3.00%	10.00%
Canada bluegrass (<i>Poa compressa</i>)	native	1.34	0.54	1.00%	0.00% 3.00%	30.00%
creeping spike-rush (<i>Eleocharis palustris</i>)	native	1.26	0.51	0.50%	0.00% 0.50%	40.00%
common great bulrush (<i>Scirpus validus</i>)	native	1.07	0.43	0.50%	0.00% 0.50%	30.00%
orchard grass (<i>Dactylis glomerata</i>)	native	1.02	0.41	0.50%	0.00% 0.50%	30.00%
Japanese chess (<i>Bromus japonicus</i>)	disturbance	1.02	0.41	0.50%	0.00% 0.50%	20.00%
crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.93	0.38	0.50%	0.00% 0.50%	20.00%
woolly sedge (<i>Carex lanuginosa</i>)	native	0.89	0.36	0.50%	0.00% 0.50%	20.00%
common tall manna grass (<i>Glyceria grandis</i>)	native	0.85	0.34	0.50%	0.00% 0.50%	30.00%
water sedge (<i>Carex aquatilis</i>)	native	0.71	0.29	0.50%	0.00% 0.50%	20.00%

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²				Constancy ³
		Area by Species		Avg	Range			
		acres	hectares					
			area sp acres ⁴					
			0.41					
GRASSES AND GRASS-LIKES continued								
slough grass (<i>Beckmannia syzigachne</i>)	native	0.32	0.13	0.50%	0.00%	0.50%	20.00%	
knotted rush (<i>Juncus nodosus</i>)	native	0.32	0.13	0.50%	0.00%	0.50%	20.00%	
sedge (<i>Carex</i> spp.)	native	0.31	0.13	0.50%	0.00%	0.50%	10.00%	
wheat grass (<i>Agropyron</i> spp.)	unknown	0.18	0.07	0.50%	0.00%	0.50%	10.00%	
northern reed grass (<i>Calamagrostis inexpansa</i>)	native	0.18	0.07	0.50%	0.00%	0.50%	10.00%	
bluebunch fescue (<i>Festuca idahoensis</i>)	native	0.18	0.07	0.50%	0.00%	0.50%	10.00%	
Nuttall's salt-meadow grass (<i>Puccinellia nuttalliana</i>)	native	0.18	0.07	0.50%	0.00%	0.50%	10.00%	
short-awned sedge (<i>Carex microglochin</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10.00%	
Russian wild rye (<i>Elymus junceus</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10.00%	
foothills rough fescue (<i>Festuca campestris</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10.00%	
fowl manna grass (<i>Glyceria striata</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10.00%	
Total area covered by GRASS AND GRASS-LIKE species =		683.3	276.7					

FORBS

wild bergamot (<i>Monarda fistulosa</i>)	native	50.2	20.33	6.00%	0.50%	97.50%	100.00%
white clover (<i>Trifolium repens</i>)	disturbance	45.03	18.24	61.60%	0.00%	97.50%	20.00%
leafy spurge (<i>Euphorbia esula</i>)	invasive	39.53	16.01	12.00%	0.00%	20.00%	20.00%
wild licorice (<i>Glycyrrhiza lepidota</i>)	native	33.75	13.67	4.80%	0.00%	10.00%	80.00%
white sweet-clover (<i>Melilotus alba</i>)	disturbance	24.93	10.10	3.10%	0.00%	20.00%	90.00%
common dandelion (<i>Taraxacum officinale</i>)	disturbance	16.02	6.49	1.90%	0.50%	10.00%	100.00%
Canada thistle (<i>Cirsium arvense</i>)	invasive	7.45	3.02	0.90%	0.00%	3.00%	90.00%
common horsetail (<i>Equisetum arvense</i>)	poisonous	6.31	2.56	0.90%	0.00%	3.00%	80.00%
silky perennial lupine (<i>Lupinus sericeus</i>)	native	4.71	1.91	0.70%	0.00%	3.00%	60.00%
common yarrow (<i>Achillea millefolium</i>)	native	4.16	1.68	0.50%	0.50%	0.50%	100.00%
perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	4.02	1.63	0.50%	0.00%	0.50%	90.00%
nodding onion (<i>Allium cernuum</i>)	native	3.83	1.55	0.50%	0.00%	0.50%	80.00%
harebell (<i>Campanula rotundifolia</i>)	native	3.83	1.55	0.50%	0.00%	0.50%	90.00%
wild mint (<i>Mentha arvensis</i>)	native	3.83	1.55	0.50%	0.00%	0.50%	90.00%
Canada goldenrod (<i>Solidago canadensis</i>)	native	3.82	1.55	0.60%	0.00%	3.00%	70.00%
yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.75	1.52	0.90%	0.00%	3.00%	80.00%
ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	3.69	1.49	0.50%	0.00%	0.50%	80.00%
wild vetch (<i>Vicia americana</i>)	native	3.6	1.46	0.50%	0.00%	0.50%	80.00%
common plantain (<i>Plantago major</i>)	disturbance	3.38	1.37	0.50%	0.00%	0.50%	70.00%
golden aster (<i>Heterotheca villosa</i>)	native	3.31	1.34	0.50%	0.00%	0.50%	80.00%
pasture sagewort (<i>Artemisia frigida</i>)	native	3.27	1.32	0.50%	0.00%	0.50%	70.00%
prairie sagewort (<i>Artemisia ludoviciana</i>)	native	3.27	1.32	0.50%	0.00%	0.50%	70.00%
prairie coneflower (<i>Ratibida columnifera</i>)	native	3.17	1.28	0.50%	0.00%	0.50%	60.00%
common burdock (<i>Arctium minus</i>)	disturbance	3.17	1.28	0.50%	0.00%	0.50%	70.00%
showy aster (<i>Aster conspicuus</i>)	native	3.13	1.27	3.00%	0.00%	3.00%	10.00%
stinkweed (<i>Thlaspi arvense</i>)	disturbance	3.03	1.23	0.50%	0.00%	0.50%	60.00%
yellow evening-primrose (<i>Oenothera biennis</i>)	native	2.89	1.17	0.50%	0.00%	0.50%	60.00%
plains wormwood (<i>Artemisia campestris</i>)	native	2.89	1.17	0.50%	0.00%	0.50%	60.00%
bull thistle (<i>Cirsium vulgare</i>)	introduced	2.81	1.14	0.50%	0.00%	0.50%	60.00%
hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	2.79	1.13	0.50%	0.00%	0.50%	70.00%
silverweed (<i>Potentilla anserina</i>)	disturbance	2.77	1.12	0.50%	0.00%	0.50%	60.00%
common goat's-beard (<i>Tragopogon dubius</i>)	introduced	2.75	1.11	0.50%	0.00%	0.50%	50.00%
small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	2.7	1.09	0.50%	0.00%	0.50%	70.00%
veiny meadow rue (<i>Thalictrum venulosum</i>)	native	2.69	1.09	0.50%	0.00%	0.50%	40.00%
curled dock (<i>Rumex crispus</i>)	introduced	2.58	1.04	0.50%	0.00%	0.50%	50.00%
wild blue flax (<i>Linum lewisii</i>)	native	2.54	1.03	0.50%	0.00%	0.50%	50.00%
golden bean (<i>Thermopsis rhombifolia</i>)	native	2.53	1.02	0.50%	0.00%	0.50%	40.00%
Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	2.5	1.01	0.50%	0.00%	0.50%	40.00%
bluebur (<i>Lappula squarrosa</i>)	disturbance	2.38	0.96	0.50%	0.00%	0.50%	60.00%
star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	2.16	0.87	0.50%	0.00%	0.50%	30.00%
spotted knapweed (<i>Centaurea maculosa</i>)	restricted	2.06	0.83	2.10%	0.00%	3.00%	20.00%
wild strawberry (<i>Fragaria virginiana</i>)	disturbance	2.05	0.83	0.50%	0.00%	0.50%	60.00%
common scouring-rush (<i>Equisetum hyemale</i>)	native	1.95	0.79	0.50%	0.00%	0.50%	50.00%
common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	1.9	0.77	0.50%	0.00%	0.50%	60.00%
flixweed (<i>Descurainia sophia</i>)	disturbance	1.8	0.73	1.00%	0.00%	3.00%	40.00%
northern bedstraw (<i>Galium boreale</i>)	native	1.78	0.72	0.50%	0.00%	0.50%	50.00%
gaillardia (<i>Gaillardia aristata</i>)	native	1.68	0.68	0.50%	0.00%	0.50%	40.00%
asparagus (<i>Asparagus officinalis</i>)	introduced	1.65	0.67	0.50%	0.00%	0.50%	20.00%
Russian-thistle (<i>Salsola kali</i>)	disturbance	1.64	0.66	0.50%	0.00%	0.50%	20.00%
black medick (<i>Medicago lupulina</i>)	introduced	1.52	0.62	0.50%	0.00%	0.50%	50.00%
nodding thistle (<i>Carduus nutans</i>)	restricted	1.32	0.53	0.50%	0.00%	0.50%	10.00%
Sunflower (<i>Helianthus</i> spp.)	native	1.32	0.53	0.50%	0.00%	0.50%	10.00%
erigeron (<i>Erigeron</i> spp.)	native	1.22	0.49	0.50%	0.00%	0.50%	30.00%
gumweed (<i>Grindelia squarrosa</i>)	native	1.21	0.49	0.50%	0.00%	0.50%	30.00%
alsike clover (<i>Trifolium hybridum</i>)	disturbance	1.17	0.47	0.50%	0.00%	0.50%	30.00%
rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	1.16	0.47	0.50%	0.00%	0.50%	30.00%
red clover (<i>Trifolium pratense</i>)	disturbance	1.06	0.43	0.50%	0.00%	0.50%	30.00%
cut-leaved anemone (<i>Anemone multifida</i>)	native	1.03	0.42	0.50%	0.00%	0.50%	30.00%
alfalfa (<i>Medicago sativa</i>)	introduced	1.01	0.41	0.50%	0.00%	0.50%	40.00%
showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.97	0.39	0.50%	0.00%	0.50%	30.00%
absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.95	0.38	0.50%	0.00%	0.50%	40%
snakeroot (<i>Sanicula marilandica</i>)	native	0.93	0.38	0.50%	0.00%	0.50%	20%
broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.85	0.34	0.50%	0.00%	0.50%	30%
tall buttercup (<i>Ranunculus acris</i>)	invasive	0.85	0.34	0.50%	0.00%	0.50%	30%
fringed loosestrife (<i>Lysimachia ciliata</i>)	native	0.85	0.34	0.50%	0.00%	0.50%	20%
three-flowered avens (<i>Geum triflorum</i>)	native	0.83	0.34	3.00%	0.00%	3.00%	10%
water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.8	0.32	0.50%	0.00%	0.50%	20%

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²			Constancy ³
		Area by Species		Avg	Range		
		acres	hectares area sp acres* 0.41				
FORBS continued							
bristly stickseed (<i>Lappula echinata</i>)	disturbance	0.71	0.29	0.50%	0.00%	0.50%	10%
common cattail (<i>Typha latifolia</i>)	native	0.64	0.26	0.50%	0.00%	0.50%	30%
white angelica (<i>Angelica arguta</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
leafy arnica (<i>Arnica chamissonis</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
lance-leaved paintbrush (<i>Castilleja occidentalis</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
sticky purple geranium (<i>Geranium viscosissimum</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
northern hedysarum (<i>Hedysarum boreale</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
cream-colored vetchling (<i>Lathyrus ochroleucus</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
spreading sweet cicely (<i>Osmorhiza depauperata</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
palmate-leaved coltsfoot (<i>Petasites palmatus</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
common blue-eyed grass (<i>Sisyrinchium montanum</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
false Solomon's-seal (<i>Smilacina racemosa</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
early blue violet (<i>Viola adunca</i>)	native	0.52	0.21	0.50%	0.00%	0.50%	10%
common mullein (<i>Verbascum thapsus</i>)	introduced	0.5	0.20	0.50%	0.00%	0.50%	20%
viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.46	0.19	0.50%	0.00%	0.50%	20%
lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.37	0.15	0.50%	0.00%	0.50%	20%
prickly lettuce (<i>Lactuca serriola</i>)	introduced	0.37	0.15	0.50%	0.00%	0.50%	20%
red-root pigweed (<i>Amaranthus retroflexus</i>)	disturbance	0.33	0.13	0.50%	0.00%	0.50%	10%
woolly gromwell (<i>Lithospermum ruderale</i>)	native	0.32	0.13	0.50%	0.00%	0.50%	20%
prairie cinquefoil (<i>Potentilla pensylvanica</i>)	native	0.31	0.13	0.50%	0.00%	0.50%	10%
water smartweed (<i>Polygonum amphibium</i>)	native	0.28	0.11	0.50%	0.00%	0.50%	10%
dock; sorrel (<i>Rumex spp.</i>)	unknown	0.28	0.11	0.50%	0.00%	0.50%	10%
common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.23	0.09	0.50%	0.00%	0.50%	10%
false ragweed (<i>Iva xanthifolia</i>)	introduced	0.23	0.09	0.50%	0.00%	0.50%	10%
knotweed (<i>Polygonum aviculare</i>)	native	0.23	0.09	0.50%	0.00%	0.50%	10%
bladder campion (<i>Silene cucubalus</i>)	invasive	0.23	0.09	0.50%	0.00%	0.50%	10%
prickly annual sow-thistle (<i>Sonchus asper</i>)	native	0.23	0.09	0.50%	0.00%	0.50%	10%
heart-leaved Alexanders (<i>Zizia aptera</i>)	native	0.23	0.09	0.50%	0.00%	0.50%	10%
common nettle (<i>Urtica dioica</i>)	native	0.18	0.07	0.50%	0.00%	0.50%	10%
smooth aster (<i>Aster laevis</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
Philadelphia fleabane (<i>Erigeron philadelphicus</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
White cockle (<i>Lynchis alba</i>)	invasive	0.14	0.06	0.50%	0.00%	0.50%	10%
celery-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
yellow false dandelion (<i>Agoseris glauca</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
pearly everlasting (<i>Anaphalis margaritacea</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
balsamroot (<i>Balsamorhiza sagittata</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
smooth fleabane (<i>Erigeron glabellus</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
yellow avens (<i>Geum aleppicum</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
owl-clover (<i>Orthocarpus luteus</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
graceful cinquefoil (<i>Potentilla gracilis</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
heal-all (<i>Prunella vulgaris</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
mountain goldenrod (<i>Solidago spathulata</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	10%
Total area covered by FORB species =		374.5	151.7				
Summary							
Total # of species = 197				Total # of native plants = 136			
Total # of TREE species = 6				Total # of restricted weeds = 2			
Total # of SHRUB species = 36				Total # of invasive weeds = 10			
Total # of GRAM species = 45				Total # of disturbance plants = 27			
Total # of FORB species = 110				Total # of plants with poisononous properties = 4			

¹ Plant status is designated by Cows and Fish in association with Alberta Agriculture, Food and Rural Development and the Alberta Weed Control Act.
'unknown' = plant not identified to species plant status unknown.

² Based on visual estimates of the amount of ground the canopy of the plant covers. The percent cover values presented are the mid-values for the following ranges: 0.5=less than 1%; 3.0=1%-5%; 10.0=5%-15%; 20.0=15%-25%; 30.0=25%-35%; 40.0=35%-45%; 50.0=45%-55%; 60.0=55%-65%; 70.0=65%-75%; 80.0=75%-85%; 90.0=85%-95%; 97.5=greater than 95%; -- = not observed.

³ Constancy is the number of times the species occurs divided by the total number of polygons.

Riparian Plant Information (BEL1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL1
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	20.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	50.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	20.0
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	shining willow (<i>Salix lucida</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	water birch (<i>Betula occidentalis</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	bluebunch fescue (<i>Festuca idahoensis</i>)	native	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	3.0
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	30.0
	knotted rush (<i>Juncus nodosus</i>)	native	0.5
	northern reed grass (<i>Calamagrostis inexpansa</i>)	native	0.5
	Nuttall's salt-meadow grass (<i>Puccinellia nuttalliana</i>)	native	0.5
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	native	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	20.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wheat grass (<i>Agropyron spp.</i>)	unknown	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	3.0
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	3.0
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5

Riparian Plant Information (BEL1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL1
Forbs (broad leaf plants)	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	spotted knapweed (<i>Centaurea maculosa</i>)	restricted	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	woolly gromwell (<i>Lithospermum ruderales</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.0

Riparian Plant Information (BEL2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL2
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	10.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	3.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	30.0
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	3.0
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	20.0
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	3.0
Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada bluegrass (<i>Poa compressa</i>)	disturbance	3.0
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	knotted rush (<i>Juncus nodosus</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	Russian wild rye (<i>Elymus junceus</i>)	introduced	0.5
	short-awned sedge (<i>Carex microglochin</i>)	native	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	60.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	3.0
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	celery-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5

Riparian Plant Information (BEL2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL2
Forbs (broad leaf plants)	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	fringed loosestrife (<i>Lysimachia ciliata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	Philadelphian fleabane (<i>Erigeron philadelphicus</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	White cockle (<i>Lynchis alba</i>)	invasive	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.0

Riparian Plant Information (BEL3)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL3
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	60.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	10.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	20.0
	choke cherry (<i>Prunus virginiana</i>)	native	30.0
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	3.0
	pussy willow (<i>Salix discolor</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	20.0
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
Grasses (and Grass-like species)	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	hairy wild rye (<i>Elymus innovatus</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	20.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	70.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	asparagus (<i>Asparagus officinalis</i>)	introduced	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5

Riparian Plant Information (BEL3)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL3
Forbs (broad leaf plants)	hound's-tongue (<i>Cynoglossum officinale</i>)	<i>invasive</i>	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	<i>poisonous</i>	0.5
	leafy spurge (<i>Euphorbia esula</i>)	<i>invasive</i>	20.0
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	<i>invasive</i>	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	red-root pigweed (<i>Amaranthus retroflexus</i>)	<i>disturbance</i>	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	<i>disturbance</i>	0.5
	white sweet-clover (<i>Melilotus alba</i>)	<i>disturbance</i>	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	<i>disturbance</i>	0.5

Riparian Plant Information (BEL4)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL4
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	20.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0
Shrubs	beaked willow (<i>Salix hebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	40.0
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	3.0
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	20.0
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	20.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	3.0
	blue grama (<i>Bouteloua gracilis</i>)	native	3.0
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	<i>disturbance</i>	3.0
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	hairy wild rye (<i>Elymus innovatus</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	20.0
	quack grass (<i>Agropyron repens</i>)	<i>disturbance</i>	20.0
	redtop (<i>Agrostis stolonifera</i>)	<i>introduced</i>	10.0
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	3.0
	smooth brome (<i>Bromus inermis</i>)	<i>disturbance</i>	30.0
	timothy (<i>Phleum pratense</i>)	<i>disturbance</i>	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	20.0
Forbs (broad leaf plants)	asparagus (<i>Asparagus officinalis</i>)	<i>introduced</i>	0.5
	bluebur (<i>Lappula squarrosa</i>)	<i>disturbance</i>	0.5
	bull thistle (<i>Cirsium vulgare</i>)	<i>introduced</i>	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	<i>invasive</i>	0.5
	common burdock (<i>Arctium minus</i>)	<i>disturbance</i>	0.5
	common dandelion (<i>Taraxacum officinale</i>)	<i>disturbance</i>	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	<i>introduced</i>	0.5
	common horsetail (<i>Equisetum arvense</i>)	<i>poisonous</i>	0.5
	common plantain (<i>Plantago major</i>)	<i>disturbance</i>	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	<i>introduced</i>	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5

Riparian Plant Information (BEL4)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL4
Forbs (broad leaf plants)	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	10.0
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	nodding thistle (<i>Carduus nutans</i>)	restricted	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	Russian-thistle (<i>Salsola kali</i>)	disturbance	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	Sunflower (<i>Helianthus spp.</i>)	unknown	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	10.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5

Riparian Plant Information (BEL5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL5
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	40.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	0.5
	choke cherry (<i>Prunus virginiana</i>)	native	20.0
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	20.0
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	saskatoon (<i>Amelanchier alnifolia</i>)	native	40.0
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	3.0
Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	0.5
	needle-and-thread (<i>Stipa comata</i>)	native	3.0
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	10.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	3.0

Riparian Plant Information (BEL5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL5
Grasses (and Grass-like species)	rush (<i>Juncus spp.</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5

Forbs (broad leaf plants)	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	bristly stickseed (<i>Lappula echinata</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	fringed loosestrife (<i>Lysimachia ciliata</i>)	native	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	snakeroot (<i>Sanicula marilandica</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5

Riparian Plant Information (BEL6)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL6
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	10.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	60.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0

Riparian Plant Information (BEL6)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL6
Shrubs	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	20.0
	water birch (<i>Betula occidentalis</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	20.0
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	sedge (<i>Carex spp.</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	10.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie cinquefoil (<i>Potentilla pensylvanica</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	red clover (<i>Trifolium pratense</i>)	disturbance	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.5
	Russian-thistle (<i>Salsola kali</i>)	disturbance	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	3.0
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	spotted knapweed (<i>Centaurea maculosa</i>)	restricted	3.0
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (BEL7)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² BEL7
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	40.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	20.0
Shrubs	basket willow (<i>Salix petiolaris</i>)	native	0.5
	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	3.0
	round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	shining willow (<i>Salix lucida</i>)	native	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	fowl bluegrass (<i>Poa palustris</i>)	native	3.0
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	20.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	3.0
	rush (<i>Juncus spp.</i>)	native	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	10.0
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bladder campion (<i>Silene cucubalus</i>)	invasive	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	10.0
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	false ragweed (<i>Iva xanthifolia</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	heart-leaved Alexanders (<i>Zizia aptera</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5

Riparian Plant Information (BEL7)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL7
Forbs (broad leaf plants)	knotweed (<i>Polygonum aviculare</i>)	unknown	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prickly annual sow-thistle (<i>Sonchus asper</i>)	native	0.5
	prickly lettuce (<i>Lactuca serriola</i>)	introduced	0.5
	red clover (<i>Trifolium pratense</i>)	disturbance	0.5
	snakeroot (<i>Sanicula marilandica</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	white clover (<i>Trifolium repens</i>)	disturbance	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	20.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (BEL8)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL8
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	10.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	10.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	50.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	10.0
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	3.0
	round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	3.0
	yellow willow (<i>Salix lutea</i>)	native	3.0
Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	3.0
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	10.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	20.0
	timothy (<i>Phleum pratense</i>)	disturbance	10.0
	western wheat grass (<i>Agropyron smithii</i>)	native	20.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5

Riparian Plant Information (BEL8)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL8
Forbs (broad leaf plants)	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	native	3.0
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	dock; sorrel (<i>Rumex spp.</i>)	unknown	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	viper's-bugloss (<i>Echium vulgare</i>)	invasive	0.5
	water smartweed (<i>Polygonum amphibium</i>)	native	0.5
	water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	10.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	3.0
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (BEL9)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL9
Trees	aspen (<i>Populus tremuloides</i>)	native	30.0
	balsam poplar (<i>Populus balsamifera</i>)	native	20.0
	white spruce (<i>Picea glauca</i>)	native	20.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	3.0
	bog birch (<i>Betula glandulosa</i>)	native	0.5
	bracted honeysuckle (<i>Lonicera involucrata</i>)	native	3.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	20.0
	false mountain willow (<i>Salix pseudomonticola</i>)	native	0.5
	green alder (<i>Alnus crispa</i>)	native	3.0
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	pussy willow (<i>Salix discolor</i>)	native	3.0
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	10.0
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	shining willow (<i>Salix lucida</i>)	native	3.0
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	20.0
	thimbleberry (<i>Rubus parviflorus</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	20.0
	wild red raspberry (<i>Rubus idaeus</i>)	native	0.5
	willow (<i>Salix spp.</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	3.0
Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	rush (<i>Juncus spp.</i>)	native	0.5

Riparian Plant Information (BEL9)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL9
Grasses (and Grass-like species)	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	10.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5

Forbs (broad leaf plants)	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	common blue-eyed grass (<i>Sisyrinchium montanum</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	3.0
	common horsetail (<i>Equisetum arvense</i>)	poisonous	3.0
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cream-colored vetchling (<i>Lathyrus ochroleucus</i>)	native	0.5
	creeping mahonia (<i>Berberis repens</i>)	native	0.5
	early blue violet (<i>Viola adunca</i>)	native	0.5
	false Solomon's-seal (<i>Smilacina racemosa</i>)	native	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hoary willow (<i>Salix candida</i>)	native	0.5
	lance-leaved paintbrush (<i>Castilleja occidentalis</i>)	native	0.5
	leafy amica (<i>Arnica chamissonis</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	northern hedsyarum (<i>Hedysarum boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	palmate-leaved coltsfoot (<i>Petasites palmatus</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	red clover (<i>Trifolium pratense</i>)	disturbance	0.5
	showy aster (<i>Aster conspicuus</i>)	native	3.0
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	spreading sweet cicely (<i>Osmorhiza depauperata</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	sticky purple geranium (<i>Geranium viscosissimum</i>)	native	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.5
	white angelica (<i>Angelica arguta</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (BEL10)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL10
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	Douglas-fir (<i>Pseudotsuga menziesii</i>)	native	0.5
	limber pine (<i>Pinus flexilis</i>)	native	0.5
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	0.5
	white spruce (<i>Picea glauca</i>)	native	3.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	Canada buffalobery (<i>Shepherdia canadensis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	10.0

Riparian Plant Information (BEL10)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL10
Shrubs	creeping juniper (<i>Juniperus horizontalis</i>)	native	20.0
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	water birch (<i>Betula occidentalis</i>)	native	10.0
	white meadowsweet (<i>Spiraea betulifolia</i>)	native	0.5
	wild red raspberry (<i>Rubus idaeus</i>)	native	0.5
	yellow mountain avens (<i>Dryas drummondii</i>)	native	10.0
Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	downy chess (<i>Bromus tectorum</i>)	<i>invasive</i>	0.5
	foothills rough fescue (<i>Festuca campestris</i>)	native	0.5
	fowl manna grass (<i>Glyceria striata</i>)	native	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	redtop (<i>Agrostis stolonifera</i>)	<i>introduced</i>	3.0
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	timothy (<i>Phleum pratense</i>)	<i>disturbance</i>	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	10.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	balsamroot (<i>Balsamorhiza sagittata</i>)	native	0.5
	bluebur (<i>Lappula squarrosa</i>)	<i>disturbance</i>	0.5
	broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.5
	bull thistle (<i>Cirsium vulgare</i>)	<i>introduced</i>	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	<i>disturbance</i>	10.0
	common pepper-grass (<i>Lepidium densiflorum</i>)	<i>introduced</i>	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	creeping mahonia (<i>Berberis repens</i>)	native	0.5
	cut-leaved anemone (<i>Anemone multifida</i>)	native	0.5
	flixweed (<i>Descurainia sophia</i>)	<i>disturbance</i>	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	graceful cinquefoil (<i>Potentilla gracilis</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	heal-all (<i>Prunella vulgaris</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	<i>invasive</i>	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	<i>poisonous</i>	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	<i>disturbance</i>	0.5
	mountain goldenrod (<i>Solidago spathulata</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	owl-clover (<i>Orthocarpus luteus</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	pearly everlasting (<i>Anaphalis margaritacea</i>)	native	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	prickly lettuce (<i>Lactuca serriola</i>)	<i>introduced</i>	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	<i>poisonous</i>	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	<i>disturbance</i>	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	<i>disturbance</i>	0.5
	smooth fleabane (<i>Erigeron glabellus</i>)	native	0.5
	tall buttercup (<i>Ranunculus acris</i>)	<i>invasive</i>	0.5
	three-flowered avens (<i>Geum triflorum</i>)	native	3.0
	veiny meadow rue (<i>Thalictrum venulosum</i>)	native	0.5
	white clover (<i>Trifolium repens</i>)	<i>disturbance</i>	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	3.0
	wild blue flax (<i>Linum lewisii</i>)	native	0.5

Riparian Plant Information (BEL10)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	BEL10
Forbs (broad leaf plants)	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	woolly gromwell (<i>Lithospermum ruderale</i>)	native	0.5
	yellow avens (<i>Geum aleppicum</i>)	native	0.5
	yellow false dandelion (<i>Agoseris glauca</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Summary of Canopy Cover of Disturbance Species by AENV Reach - SSRB 2004

AENV Reach	Polygon ID Number	Polygon Name	Size (acres)	Size (hect)	Disturbance-Caused Undesirable Species		
					(% as a decimal)	Polygon Area in Acres x % Canopy Cover	Polygon Area in Hectares x % Canopy Cover
BL-05	200410083	BEL9	104.38	42.24	0.3	31.31	12.67
	200410084	BEL10	27.83	11.26	0.3	8.35	3.38
Reach Total:			132.21	53.50		39.66	16.05
Reach Average:			66.11	26.75		19.83	8.03
BL-04	200410045	BEL1	36.99	14.97	0.7	25.89	10.48
	200410070	BEL6	62.63	25.35	0.4	25.05	10.14
Reach Total:			99.62	40.32		50.95	20.62
Reach Average:			49.81	20.16		25.47	10.31
BL-03	200410081	BEL7	45.33	18.34	0.6	27.20	11.00
	200410082	BEL8	55.11	22.3	0.6	33.07	13.38
Reach Total:			100.44	40.64		60.26	24.38
Reach Average:			50.22	20.32		30.13	12.19
BL-02	200410044	BEL2	27.92	11.3	0.7	19.54	7.91
	200410069	BEL5	141.14	57.12	0.4	56.46	22.85
Reach Total:			169.06	68.42		76.00	30.76
Reach Average:			84.53	34.21		38.00	15.38
BL-01	200410048	BEL3	65.22	26.39	0.9	58.70	23.75
	200410068	BEL4	264.86	107.19	0.7	185.40	75.03
Reach Total:			330.08	133.58		244.10	98.78
Reach Average:			165.04	66.79		122.05	49.39
Overall total			831.4	336.5		471.0	190.6
Overall average			83.1	33.6		47.1	19.1
Overall %						56.6%	56.6%

Total # polygons = 10					
AENV Reach	ID No.	Polygon Name	Polygon Size	Are noxious weeds present?	
			Acres	Hectares	
BL-05	200410083	BEL9	104.38	42.24	Yes
	200410084	BEL10	27.83	11.26	Yes
	Reach Total:		132.21	53.50	
	Reach Average:		66.11	26.75	
BL-04	200410045	BEL1	36.99	14.97	Yes
	200410070	BEL6	62.63	25.35	Yes
	Reach Total:		99.62	40.32	
	Reach Average:		49.81	20.16	
BL-03	200410081	BEL7	45.33	18.34	Yes
	200410082	BEL8	55.11	22.3	Yes
	Reach Total:		100.44	40.64	
	Reach Average:		50.22	20.32	
BL-02	200410044	BEL2	27.92	11.3	Yes
	200410069	BEL5	141.14	57.12	Yes
	Reach Total:		169.06	68.42	
	Reach Average:		84.53	34.21	
BL-01	200410048	BEL3	65.22	26.39	Yes
	200410068	BEL4	264.86	107.19	Yes
	Reach Total:		330.08	133.58	
	Reach Average:		165.04	66.79	
Total Area			831.41	336.46	
Percent of total area					

Bladder Campion				Blueweed				Canada Thistle			
Constancy* = Canopy Cover % as a decimal	Density Distribution	Acres	Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Acres	Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Acres	Hectares
0	0	0.00	0.00	0	0	0.00	0.00	0.005	5	0.522	0.211
0	0	0.00	0.00	0	0	0.00	0.00	0.005	5	0.139	0.056
		0.00	0.00			0.00	0.00			0.66	0.27
		0.00	0.00			0.00	0.00			0.13	0.13
0	0	0.00	0.00	0.005	2	0.18	0.07	0.03	10	1.110	0.449
0	0	0.00	0.00	0	0	0.00	0.00	0.005	2	0.313	0.127
		0.00	0.00			0.18	0.07			1.42	0.58
		0.00	0.00			0.09	0.04			0.71	0.29
0.005	1	0.23	0.09	0	0	0.00	0.00	0.03	8	1.360	0.550
0	0	0.00	0.00	0.005	2	0.28	0.11	0.03	9	1.653	0.669
		0.23	0.09			0.28	0.11			3.01	1.22
		0.11	0.05			0.14	0.06			1.51	0.61
0	0	0.00	0.00	0	0	0.00	0.00	0.005	6	0.140	0.057
0	0	0.00	0.00	0	0	0.00	0.00	0.005	5	0.706	0.286
		0.00	0.00			0.00	0.00			0.85	0.34
		0.00	0.00			0.00	0.00			0.42	0.17
0	0	0.00	0.00	0	0	0.00	0.00	0.005	6	0.326	0.132
0	0	0.00	0.00	0	0	0.00	0.00	0.005	8	1.324	0.536
		0.00	0.00			0.00	0.00			1.65	0.67
		0.00	0.00			0.00	0.00			0.83	0.33
		0.23	0.03%			0.46	0.06%			7.59	3.07
		0.03%	0.03%							0.91%	0.91%

Total # polygons = 10						Common Hound's tongue			Leafy Spurge			Ox-eye Daisy					
AENV Reach	ID No.	Polygon Name	Acres	Polygon Size	Are noxious weeds present?	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares
BL-05	200410083	BEL9	104.38	42.24	Yes	0	0	0.00	0.00	0	0	0.00	0.00	0.005	4	0.52	0.21
	200410084	BEL10	27.83	11.26	Yes	0.005	8	0.14	0.06	0	0	0.00	0.00	0	0	0.00	0.00
	Reach Total:		132.21	53.50				0.14	0.06			0.00	0.00			0.52	0.21
	Reach Average:		66.11	26.75				0.07	0.03			0.00	0.00			0.26	0.11
BL-04	200410045	BEL1	36.99	14.97	Yes	0.005	2	0.18	0.07	0	0	0.00	0.00	0.005	8	0.18	0.07
	200410070	BEL6	62.63	25.35	Yes	0.005	2	0.31	0.13	0	0	0.00	0.00	0.005	5	0.31	0.13
	Reach Total:		99.62	40.32				0.50	0.20			0.00	0.00			0.50	0.20
	Reach Average:		49.81	20.16				0.25	0.10			0.00	0.00			0.25	0.10
BL-03	200410081	BEL7	45.33	18.34	Yes	0.005	5	0.23	0.09	0	0	0.00	0.00	0.005	8	0.23	0.09
	200410082	BEL8	55.11	22.3	Yes	0.005	6	0.28	0.11	0	0	0.00	0.00	0.005	6	0.28	0.11
	Reach Total:		100.44	40.64				0.50	0.20			0.00	0.00			0.50	0.20
	Reach Average:		50.22	20.32				0.25	0.10			0.00	0.00			0.25	0.10
BL-02	200410044	BEL2	27.92	11.3	Yes	0	0	0.00	0.00	0	0	0.00	0.00	0.005	6	0.14	0.06
	200410069	BEL5	141.14	57.12	Yes	0	0	0.00	0.00	0	0	0.00	0.00	0.005	7	0.71	0.29
	Reach Total:		169.06	68.42				0.00	0.00			0.00	0.00			0.85	0.34
	Reach Average:		84.53	34.21				0.00	0.00			0.00	0.00			0.42	0.17
BL-01	200410048	BEL3	65.22	26.39	Yes	0.005	6	0.33	0.13	0.2	12	13.04	5.28	0	0	0.00	0.00
	200410068	BEL4	264.86	107.19	Yes	0.005	2	1.32	0.54	0.1	11	26.49	10.72	0.005	4	1.32	0.54
	Reach Total:		330.08	133.58				1.65	0.67			39.53	16.00			1.32	0.54
	Reach Average:		165.04	66.79				0.83	0.33			19.77	8.00			0.66	0.27
Total Area						831.41	336.46	2.79	1.13			39.53	16.00			3.69	1.49
Percent of total area								0.34%	0.34%			4.75%	4.75%			0.44%	0.44%

*Constancy is the number of times the species was observed in the Belly River Project area

Total # polygons = 10						Perennial Sow-thistle				Spotted Knapweed- restricted				Tail Buttercup			
AENV Reach	ID No.	Polygon Name	Acres	Polygon Size	Are noxious weeds present?	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres
BL-05	200410083	BEL9	104.38	42.24	Yes	0.005	4	0.52	0.21	0	0.005	0.00	0.00	0.005	5	0.52	0.21
	200410084	BEL10	27.83	11.26	Yes	0		0.00	0.00	0.005	5	0.14	0.06	0.005	5	0.14	0.06
	Reach Total:		132.21	53.50				0.52	0.21			0.14	0.06			0.66	0.27
	Reach Average:		66.11	26.75				0.26	0.11			0.07	0.03			0.33	0.13
BL-04	200410045	BEL1	36.99	14.97	Yes	0.005	5	0.18	0.07	0.005	8	0.18	0.07	0.005	5	0.18	0.07
	200410070	BEL6	62.63	25.35	Yes	0.005	5	0.31	0.13	0.03	8	1.88	0.76	0		0.00	0.00
	Reach Total:		99.62	40.32				0.50	0.20			2.06	0.84			0.18	0.07
	Reach Average:		49.81	20.16				0.25	0.10			1.03	0.42			0.09	0.04
BL-03	200410081	BEL7	45.33	18.34	Yes	0.005	5	0.23	0.09	0		0.00	0.00	0		0.00	0.00
	200410082	BEL8	55.11	22.3	Yes	0.005	2	0.28	0.11	0		0.00	0.00	0		0.00	0.00
	Reach Total:		100.44	40.64				0.50	0.20			0.00	0.00			0.00	0.00
	Reach Average:		50.22	20.32				0.25	0.10			0.00	0.00			0.00	0.00
BL-02	200410044	BEL2	27.92	11.3	Yes	0.005	6	0.14	0.06	0		0.00	0.00	0		0.00	0.00
	200410069	BEL5	141.14	57.12	Yes	0.005	6	0.71	0.29	0		0.00	0.00	0		0.00	0.00
	Reach Total:		169.06	68.42				0.85	0.34			0.00	0.00			0.00	0.00
	Reach Average:		84.53	34.21				0.42	0.17			0.00	0.00			0.00	0.00
BL-01	200410048	BEL3	65.22	26.39	Yes	0.005	2	0.33	0.13	0		0.00	0.00	0		0.00	0.00
	200410068	BEL4	264.86	107.19	Yes	0.005	5	1.32	0.54	0		0.00	0.00	0		0.00	0.00
	Reach Total:		330.08	133.58				1.65	0.67			0.00	0.00			0.00	0.00
	Reach Average:		165.04	66.79				0.83	0.33			0.00	0.00			0.00	0.00
Total Area			831.41	336.46				4.02	1.63			2.20	0.89			0.85	0.34
Percent of total area								0.48%	0.48%			0.26%	0.27%			0.10%	0.10%

AENV Reach	ID No.	Polygon Name	Total # polygons = 10		Are noxious weeds present?	Nodding Thistle - restricted			White Cockle			Downy Chess		
			Acres	Hectares		Constancy' Canopy Cover % as a decimal	10% Density Distribution	Area Occupied Acres Hectares	Constancy* Canopy Cover % as a decimal	10% Density Distribution	Area Occupied Acres Hectares	Constancy* Canopy Cover % as a decimal	40% Density Distribution	Area Occupied Acres Hectares
BL-05	200410083	BEL9	104.38	42.24	Yes	0		0.00	0		0.00	0		0.00
	200410084	BEL10	27.83	11.26	Yes	0		0.00	0		0.00	0.005	2	0.14
		Reach Total:	132.21	53.50				0.00			0.00			0.06
BL-04		Reach Average:	66.11	26.75				0.00			0.00			0.03
	200410045	BEL1	36.99	14.97	Yes	0		0.00	0		0.00	0.03	8	1.11
	200410070	BEL6	62.63	25.35	Yes	0		0.00	0		0.00	0		0.00
BL-03		Reach Total:	99.62	40.32				0.00			0.00			1.11
		Reach Average:	49.81	20.16				0.00			0.00			0.55
	200410081	BEL7	45.33	18.34	Yes	0		0.00	0		0.00	0.005	1	0.23
BL-02	200410082	BEL8	55.11	22.3	Yes	0		0.00	0		0.00	0		0.00
		Reach Total:	100.44	40.64				0.00			0.00			0.23
		Reach Average:	50.22	20.32				0.00			0.00			0.11
BL-01	200410044	BEL2	27.92	11.3	Yes	0		0.00	0.005	2	0.14	0		0.00
	200410069	BEL5	141.14	57.12	Yes	0		0.00	0		0.00	0.005	3	0.71
		Reach Total:	169.06	68.42				0.00			0.14			0.71
BL-01		Reach Average:	84.53	34.21				0.00			0.07			0.35
	200410048	BEL3	65.22	26.39	Yes	0		0.00	0		0.00	0		0.00
	200410068	BEL4	264.86	107.19	Yes	0.005	1	1.32	0		0.00	0		0.00
BL-01		Reach Total:	330.08	133.58				1.32			0.00			0.00
		Reach Average:	165.04	66.79				0.66			0.00			0.00
BL-01		Total Area	831.41	336.46				1.32			0.14			2.18
		Percent of total area						0.16%			0.02%			0.26%
								0.54			0.06			0.88

*Constancy is the number of times the species was observed in the Belly River Project area

Total # polygons = 10						Total (All Weeds)				
AENV Reach	ID No.	Polygon Name	Acres	Hectares	Are noxious weeds present?	Canopy Cover % as a decimal	Density Distribution	Acres	Area Occupied Hectares	
BL-05	200410083	BEL9	104.38	42.24	Yes	0.005	5	0.522	0.211	
	200410084	BEL10	27.83	11.26	Yes	0.005	8	0.139	0.056	
	Reach Total:		132.21	53.50			13.00	0.66		
	Reach Average:		66.11	26.75			6.50	0.33		
BL-04	200410045	BEL1	36.99	14.97	Yes	0.1	10	3.699	1.497	
	200410070	BEL6	62.63	25.35	Yes	0.03	8	1.879	0.761	
	Reach Total:		99.62	40.32			18.00	5.58		
	Reach Average:		49.81	20.16			9.00	2.79		
BL-03	200410081	BEL7	45.33	18.34	Yes	0.03	8	1.360	0.550	
	200410082	BEL8	55.11	22.3	Yes	0.03	9	1.653	0.669	
	Reach Total:		100.44	40.64			17.00	3.01		
	Reach Average:		50.22	20.32			8.50	1.51		
BL-02	200410044	BEL2	27.92	11.3	Yes	0.005	6	0.140	0.057	
	200410069	BEL5	141.14	57.12	Yes	0.005	7	0.706	0.286	
	Reach Total:		169.06	68.42			13.00	0.85		
	Reach Average:		84.53	34.21			6.50	0.42		
BL-01	200410048	BEL3	65.22	26.39	Yes	0.2	12	13.044	5.278	
	200410068	BEL4	264.86	107.19	Yes	0.1	11	26.486	10.719	
	Reach Total:		330.08	133.58			23.00	39.53		
	Reach Average:		165.04	66.79			11.50	19.77		
Total Area			831.41	336.46				49.63	20.08	
Percent of total area								5.97%	5.97%	

*Constancy is the number of times the species was observed in the Belly River Project area

AENV	ID No.	Polygon No.	Polygon Size (acres)	Polygon (hectares)	Classification Type Name	Percent of Polygon Cover	Area of Type (acres)	Comments
BL-05	200410083	BEL9	104.38	42.24	PICEGLA/CORNSTO HT	0.975	101.77	41.18
	200410084	BEL10	27.83	11.26	POPUBAL/SYMPOCC CT	0.975	27.13	10.98
BL-04	200410045	BEL1	36.99	14.97	POPUBAL/SYMPOCC CT	0.8	29.59	11.98
	200410045	BEL1	36.99	14.97	POPUBAL/GRAB CT	0.2	7.40	2.99
	200410070	BEL6	62.63	25.35	POPUBAL/SYMPOCC CT	0.975	61.06	24.72
BL-03	200410081	BEL7	45.33	18.34	POPUBAL/SYMPOCC CT	0.8	36.26	14.67
	200410081	BEL7	45.33	18.34	POPUBAL/CORNSTO CT	0.2	9.07	3.67
	200410082	BEL8	55.11	22.3	SALIBEB/CORNSTO HT	0.9	49.60	20.07
	200410082	BEL8	55.11	22.3	SALIEXI CT	0.1	5.51	2.23
BL-02	200410044	BEL2	27.92	11.3	POPUBAL/CORNSTO CT	0.9	25.13	10.17
	200410044	BEL2	27.92	11.3	POPUBAL/GRAB CT	0.1	2.79	1.13
BL-01	200410069	BEL5	141.14	57.12	POPUBAL/CORNSTO CT	0.975	137.61	55.69
	200410048	BEL3	65.22	26.39	POPUBAL/SYMPOCC CT	0.975	63.59	25.73
BL-01	200410068	BEL4	264.86	107.19	POPUBAL/CORNSTO CT	0.975	258.24	104.51
<div> <div> Seven Letter Code PICEGLA/CORNSTO HT POPUBAL CT POPUBAL/CORNSTO CT POPUBAL/GRAB CT POPUBAL/SYMPOCC CT POPUBAL/CORNSTO CT </div> <div> Habitat or Community Type Name <i>Picea glauca</i>/Corns stolonifera <i>Populus angustifolia</i>/Corns stolonifera <i>Populus angustifolia</i>/Recent Alluvial Bar <i>Populus angustifolia</i>/Symphoricarpos occidentalis <i>Populus balsamifera</i>/Corns stolonifera </div> <div> Habitat Type Habitat Type Community Type Community Type Community Type Community Type </div> </div>								
<div> <div> Seven Letter Code POPUBAL/SYMPOCC CT SALIBEB/CORNSTO HT SALIEXI CT </div> <div> Habitat or Community Type Name <i>Populus balsamifera</i>/Symphoricarpos occidentalis <i>Salix bebbiana</i>/Corns stolonifera <i>Salix exigua</i> Community Type </div> <div> Habitat Type Community Type Habitat Type Community Type </div> </div>								

There is enough CORNSTO and willow present for this classification. BETUOCC was also a prominent shrub
Mostly mature species. Shrubs abundant but preferred shrubs lacking. White spruce also present but not successfully reproducing.

The shrub cover just meets the requirements and is based on mostly ELAEOM

Shrubs are scarce but most abundant closest to the fence large cover provided by disturbance species.
all age classes present, good regeneration. POPUANG present but POPUBAL dominates
SALIBEB is dying out and no regeneration was seen.
MELIALB was prominent on gravel bars as well.

POPUBAL mixed in.

All age classes present. There are a variety of shrubs in the thick understory of the POPUBAL AND POPUANG seems to be more prominent near the riverbank. There are increased levels of dead/decadence in the POPUBAL community towards the outer width.

Cutbank was mostly SYMPOCC. A lot of PRUNVIR and AMELALN in understory. CORNSTO appears to be making a come back. A lot of regeneration no utilisation

[Logging, Recreation, Railroads, Vegetation Removal, Mining and Recreation are factors NOT contributing to structurally altered banks by human causes in Belly River project area.

AENV ID No.	Polygon Number	Total # of Polygons = 10		Length of stream inventoried x %		Is stream bank altered by on-site human activities? alterations		Percent of length with human caused alterations		Grazing		Stream length km or miles with human-caused bank alterations x % alterations associated with grazing		Roads		Stream length km or miles with human-caused bank alterations x % alterations associated with roads		Other		Stream length km or miles with human-caused bank alterations x % alterations associated with other causes		Explain "other"
		(km)	(miles)	(km)	(miles)	(km)	(miles)	(percent as a decimal)	(percent as a decimal)	(percent as a decimal)	(miles)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(miles)	
BL-05	200410083 BEL9	1.21	0.75	No	0.000	0	0.000	0.000	0	0.975	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000	gravel has been excavated out of gravel bar.
	200410084 BEL10	1.13	0.7	Yes	0.210	0.3	0.339	0.210	0.975	0.331	0.205	0.331	0.205	0	0.000	0.000	0	0.000	0	0.000	0.000	
				Reach Total:	0.210		0.339	0.210		0.311	0.205	0.311	0.205		0.000	0.000		0.000		0.000	0.000	
BL-04	200410045 BEL1	1.5	0.93	Yes	0.028	0.03	0.045	0.028	0.7	0.975	0	0.032	0.020	0	0.000	0.000	0.3	0.014	0.008	0.008	0.000	gravel has been excavated out of gravel bar.
	200410070 BEL6	1.01	0.63	Yes	0.003	0.005	0.005	0.003	0.975	0.005	0.003	0.005	0.003	0	0.000	0.000	0	0.000	0	0.000	0.000	
				Reach Total:	0.031		0.050	0.031		0.036	0.023	0.036	0.023		0.000	0.000		0.014	0.008	0.008	0.000	
BL-03	200410081 BEL7	0.92	0.57	Yes	0.057	0.1	0.092	0.057	0.975	0.975	0	0.090	0.056	0	0.000	0.000	0	0.000	0	0.000	0.000	gravel has been excavated out of gravel bar.
	200410082 BEL8	0.68	0.42	Yes	0.002	0.005	0.003	0.002	0.975	0.975	0	0.003	0.002	0	0.000	0.000	0	0.000	0	0.000	0.000	
				Reach Total:	0.059		0.095	0.059		0.093	0.058	0.093	0.058		0.000	0.000		0.000		0.000	0.000	
BL-02	200410044 BEL2	1.26	0.78	No	0.000	0	0.000	0.000	0	0	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000	gravel has been excavated out of gravel bar.
	200410069 BEL5	1.14	0.71	No	0.000	0	0.000	0.000	0	0	0	0.000	0.000	0	0.000	0.000	0	0.000	0	0.000	0.000	
				Reach Total:	0.000		0.000	0.000		0.000	0.000	0.000	0.000		0.000	0.000		0.000		0.000	0.000	
BL-01	200410048 BEL3	1.32	0.82	Yes	0.025	0.03	0.040	0.025	0.7	0.975	0.3	0.028	0.017	0.3	0.012	0.007	0	0.000	0	0.000	0.000	gravel has been excavated out of gravel bar.
	200410068 BEL4	2.38	1.48	Yes	0.007	0.005	0.012	0.007	0.975	0.975	0	0.012	0.007	0	0.000	0.000	0	0.000	0	0.000	0.000	
				Reach Total:	0.032		0.052	0.032		0.039	0.024	0.039	0.024		0.000	0.000		0.000		0.000	0.000	
				Reach Average:	0.016		0.026	0.016		0.012	0.004	0.012	0.004		0.006	0.004		0.006		0.006	0.004	
Totals		12.55	7.79		0.33		0.54	0.33		0.50	0.31	0.50	0.31		0.01	0.01		0.01		0.01	0.01	gravel has been excavated out of gravel bar.
Average		1.26	0.78		0.03		0.05	0.03		0.05	0.03	0.05	0.03		0.00	0.00		0.00		0.00	0.00	
Percentage				4.3%	4.3%		4.3%	4.3%		93.2%	93.2%	93.2%	93.2%		2.2%	2.2%		2.5%		2.5%	2.5%	

Of exposed soil surface within polygon, how much is due to:										
Natural Processes					Human-caused processes:					
AENV Reach	ID No.	Polygon Name	Polygon Size		Is there exposed soil surface?	Percent of polygon which is exposed soil surface % as a decimal	Area of polygon which is exposed soil surface		polygon size x % polygon area with exposed soil surface	
			acres	hectares			acres	hectares		
BL-05	200410083	BEL9	104.38	42.24	Yes	0.005	0.522	0.211	Area due to natural processes % as a decimal acres hectares Percent due to natural processes % as a decimal acres hectares Area due to human-caused disturbance % as a decimal acres hectares Percent due to human-caused processes % as a decimal acres hectares	
	200410084	BEL10	27.83	11.26	Yes	0.2	5.566	2.252		
	Reach Total:		132.21	53.50			6.09	2.46		
	Reach Average:		66.11	26.75			3.04	1.23		
BL-04	200410045	BEL1	36.99	14.97	Yes	0.1	3.699	1.497		
	200410070	BEL6	62.63	25.35	Yes	0.1	6.263	2.535		
	Reach Total:		99.62	40.32			9.96	4.03		
	Reach Average:		49.81	20.16			4.98	2.02		
BL-03	200410081	BEL7	45.33	18.34	Yes	0.005	0.227	0.092		
	200410082	BEL8	55.11	22.3	Yes	0.005	0.276	0.112		
	Reach Total:		100.44	40.64			0.50	0.20		
	Reach Average:		50.22	20.32			0.25	0.10		
BL-02	200410069	BEL5	141.14	57.12	Yes	0.005	0.706	0.286		
	200410044	BEL2	27.92	11.3	Yes	0.03	0.838	0.339		
	Reach Total:		169.06	68.42			1.54	0.62		
	Reach Average:		84.53	34.21			0.77	0.31		
BL-01	200410048	BEL3	65.22	26.39	Yes	0.03	1.957	0.792		
	200410068	BEL4	264.86	107.19	Yes	0.005	1.324	0.536		
	Reach Total:		330.08	133.58			3.28	1.33		
	Reach Average:		165.04	66.79			1.64	0.66		
Sum area all polygon areas			831.41	336.46						
Sum area all polygon areas			Average	83.14						
			Percentage:							
			21.38	8.65						
			2.14	0.87						
			2.6%	2.6%						
			total area exposed / total area							
			12.83	5.19						
			0.85	0.34						
			39.8%	39.8%						
			total area of bare ground by human causes / total area of exposed soil							
			8.50	3.44						

Of natural processes, how much is due to:

AENV Reach	ID No.	Polygon Name	Polygon Size		Erosional		Area		Depositi nal		Area		Wildlife Use		Area		Area		Area	
			acres	hectares	% as a decimal	% as a decimal	acres	hectares	% as a decimal	% as a decimal	acres	hectares	% as a decimal	% as a decimal	acres	hectares	acres	hectares	% as a decimal	% as a decimal
BL-05	200410083 BEL9	200410084 BEL10 <i>Reach Total:</i> <i>Reach Average:</i>	104.38	42.24	0.2	0.031	0.013	0.8	0.125	0.051	0.005	0.002	0	0.000	0	0.000	0.000	0.000		
			27.83	11.26	0.2	0.779	0.315	0.8	3.117	1.261	0.000	0.000	0	0.000	0.000	0.000	0.000	0.000		
			132.21	53.50		0.81	0.33		3.24	1.31	0.00	0.00		0.00	0.00	0.00	0.00	0.00		
			66.11	26.75		0.41	0.16		1.62	0.66	0.00	0.00		0.00	0.00	0.00	0.00	0.00		
BL-04	200410045 BEL1	200410070 BEL6 <i>Reach Total:</i> <i>Reach Average:</i>	36.99	14.97	0.2	0.222	0.090	0.7	0.777	0.314	0	0.000	0	0.000	0	0.000	0.000	0.000		
			62.63	25.35	0.1	0.438	0.177	0.9	3.946	1.597	0.005	0.009	0	0.000	0.002	0.000	0.000	0.000		
			99.62	40.32		0.66	0.27		4.72	1.91	0.02	0.01		0.00	0.01	0.00	0.00	0.00		
			49.81	20.16		0.33	0.13		2.36	0.96	0.01	0.00		0.00	0.01	0.00	0.00	0.00		
BL-03	200410081 BEL7	200410082 BEL8 <i>Reach Total:</i> <i>Reach Average:</i>	45.33	18.34	0.2	0.032	0.013	0.8	0.127	0.051	0	0.000	0	0.000	0	0.000	0.000	0.000		
			55.11	22.3	0.1	0.011	0.004	0.9	0.099	0.040	0.003	0.001	0	0.000	0.003	0.000	0.000	0.000		
			100.44	40.64		0.04	0.02		0.23	0.09	0.00	0.00		0.00	0.00	0.00	0.00	0.00		
			50.22	20.32		0.02	0.01		0.11	0.05	0.00	0.00		0.00	0.00	0.00	0.00	0.00		
BL-02	200410089 BEL5	200410044 BEL2 <i>Reach Total:</i> <i>Reach Average:</i>	141.14	57.12	0.2	0.138	0.056	0.8	0.550	0.223	0	0.000	0	0.000	0	0.000	0.000	0.000		
			27.92	11.3	0.005	0.004	0.002	0.975	0.796	0.322	0.005	0.004	0.002	0	0.000	0.004	0.000	0.000		
			169.06	68.42		0.14	0.06		1.35	0.55	0.00	0.00		0.00	0.00	0.00	0.00	0.00		
			84.53	34.21		0.07	0.03		0.67	0.27	0.00	0.00		0.00	0.00	0.00	0.00	0.00		
BL-01	200410048 BEL3	200410068 BEL4 <i>Reach Total:</i> <i>Reach Average:</i>	65.22	26.39	0.1	0.059	0.024	0.9	0.528	0.214	0.03	0.018	0.007	0	0.000	0.018	0.000	0.000		
			264.86	107.19	0.2	0.185	0.075	0.8	0.742	0.300	0.03	0.028	0.011	0.005	0.005	0.002	0.005	0.002		
			330.08	133.58		0.24	0.10		1.27	0.51	0.05	0.02		0.00	0.05	0.02	0.00	0.00		
			165.04	66.79		0.12	0.05		0.63	0.26	0.02	0.01		0.00	0.02	0.01	0.00	0.00		

sum area all polygon areas

Totals

831.41

336.46

sum area all polygon areas

Average

83.14

33.65

0.46	0.19	1.65	4.09	0.06	0.02	0.005	0.002
0.09	0.04	0.33	0.82	0.01	0.00	0.001	0.000
3.6%	3.6%	31.8%	31.8%	0.4%	0.4%	0.04%	0.04%
total area cause / total area of bare ground due to natural causes				total area cause / total area of bare ground due to natural causes			

0.06	0.02	0.005	0.002
0.01	0.00	0.001	0.000
0.4%	0.4%	0.04%	0.04%
total area cause / total area of bare ground due to natural causes			

0.06	0.02	0.005	0.002
0.01	0.00	0.001	0.000
0.4%	0.4%	0.04%	0.04%
total area cause / total area of bare ground due to natural causes			

Of human-caused processes, how much is due to:

On Human-Caused Processes: Disturbance to Grazing																
AENV Reach	ID No.	Polygon Name	Polygon Size		Grazing		Area		Recreation		Area		Constructi on		area exposed from human- caused disturbance % due to recreation	area exposed from human- caused disturbance % due to construction
			acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares			
BL-05	200410083	BEL9	104.38	42.24	0.9	0.329	0.133	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	200410084	BEL10	27.83	11.26	0.975	1.628	0.659	0	0.000	0.000	0.0005	0.008	0.003	0.01	0.00	0.00
	Reach Total:		132.21	53.50		1.96	0.79		0.00	0.00	0.00	0.00	0.00		0.00	0.00
Reach Average:			66.11	26.75		0.98	0.40									
BL-04	200410045	BEL1	36.99	14.97	0.975	2.525	1.022	0.005	0.013	0.005	0	0.000	0.000	0	0.000	0.000
	200410070	BEL6	62.63	25.35	0.9	1.691	0.684	0.1	0.188	0.076	0	0.000	0.000	0	0.000	0.000
	Reach Total:		99.62	40.32		4.22	1.71		0.20	0.08		0.00	0.00		0.00	0.00
Reach Average:			49.81	20.16		2.11	0.85		0.10	0.04		0.00	0.00		0.00	0.00
BL-03	200410081	BEL7	45.33	18.34	0.975	0.066	0.027	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	200410082	BEL8	55.11	22.3	0.975	0.161	0.065	0.005	0.001	0.000	0	0.000	0.000	0	0.000	0.000
	Reach Total:		100.44	40.64		0.23	0.09		0.00	0.00		0.00	0.00		0.00	0.00
Reach Average:			50.22	20.32		0.11	0.05		0.00	0.00		0.00	0.00		0.00	0.00
BL-02	200410069	BEL5	141.14	57.12	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	200410044	BEL2	27.92	11.3	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	Reach Total:		169.06	68.42		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00
Reach Average:			84.53	34.21		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00
BL-01	200410048	BEL3	65.22	26.39	0.3	0.411	0.166	0	0.000	0.000	0	0.000	0.000	0	0.000	0.000
	200410068	BEL4	264.86	107.19	0.975	0.387	0.157	0.005	0.002	0.001	0	0.000	0.000	0	0.000	0.000
	Reach Total:		330.08	133.58		0.80	0.32		0.00	0.00		0.00	0.00		0.00	0.00
Reach Average:			165.04	66.79		0.40	0.16		0.00	0.00		0.00	0.00		0.00	0.00

sum area all polygon areas	Totals	831.41	336.46
sum area all polygon areas	Average	83.14	33.65

0.80	0.32
0.16	0.06
9.4%	9.4%
total area cause / total area of bare ground due to human causes	

0.0020	0.0008
0.0004	0.0002
0.02%	0.02%
total area cause / total area of bare ground due to human causes	

0.0000	0.0000
0.0000	0.0000
0.0%	0.0%
total area cause / total area of bare ground due to human causes	

AENV Reach	ID No.	Polygon Name	Polygon Size		Mine Tailing % as a decimal	Area exposed from human-caused disturbance % due to mine tailing		Other % as a decimal	Area exposed from human-caused disturbance % due to other causes		Explain "Other"
			acres	hectares		acres	hectares		acres	hectares	
BL-05	200410083	BEL9	104.38	42.24	0	0.000	0.000	0.1	0.037	0.015	vehicle access trails
	200410084	BEL10	27.83	11.26	0.005	0.008	0.003	0	0.000	0.000	
	Reach Total:		132.21	53.50		0.01	0.00		0.04	0.01	
	Reach Average:		66.11	26.75		0.00	0.00		0.02	0.01	
BL-04	200410045	BEL1	36.99	14.97	0	0.000	0.000	0	0.000	0.000	
	200410070	BEL6	62.63	25.35	0	0.000	0.000	0	0.000	0.000	
	Reach Total:		99.62	40.32		0.00	0.00		0.00	0.00	
	Reach Average:		49.81	20.16		0.00	0.00		0.00	0.00	
BL-03	200410081	BEL7	45.33	18.34	0	0.000	0.000	0	0.000	0.000	
	200410082	BEL8	55.11	22.3	0	0.000	0.000	0	0.000	0.000	
	Reach Total:		100.44	40.64		0.00	0.00		0.00	0.00	
	Reach Average:		50.22	20.32		0.00	0.00		0.00	0.00	
BL-02	200410069	BEL5	141.14	57.12	0	0.000	0.000	0	0.000	0.000	
	200410044	BEL2	27.92	11.3	0	0.000	0.000	0	0.000	0.000	
	Reach Total:		169.06	68.42		0.00	0.00		0.00	0.00	
	Reach Average:		84.53	34.21		0.00	0.00		0.00	0.00	
BL-01	200410048	BEL3	65.22	26.39	0	0.000	0.000	0.7	0.959	0.388	Vehicle Trails
	200410068	BEL4	264.86	107.19	0	0.000	0.000	0	0.000	0.000	
	Reach Total:		330.08	133.58		0.00	0.00		0.96	0.39	
	Reach Average:		165.04	66.79		0.00	0.00		0.48	0.19	

sum area all polygon areas			831.41	336.46
sum area all polygon areas			83.14	33.65
Totals			0.0000	0.0000
Average			0.0000	0.0000
			0.0%	0.0%
			total area cause / total area of bare ground due to human causes	
			0.192	0.078
			11.3%	11.3%
			total area cause / total area of bare ground due to human causes	
			0.959	0.388

AENV Reach	I.D. Number	Polygon Name	Area		Breakdown of the polygon into % of the area in these land uses:												Other Comments
			acres	hectares	No Land use	Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging	Mining	Railroads	Other	
Total Polygons= 10			Sum of Polygons=		2	0	9	7	0	0	0	2	0	0	0	2	3 vehicle/ATV trail
			Constancy=		20.0%	0.0%	90.0%	70.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	20.0%	
BL-05	200410083	BEL9	104.38	42.24	20		80										0.5 gravel excavation out of a gravel bar
	200410084	BEL10	27.83	11.26			97.5										
BL-04	200410045	BEL1	36.99	14.97			97.5	0.5				0.5					
	200410070	BEL6	62.63	25.35			90	10									
BL-03	200410081	BEL7	45.33	18.34			97.5	0.5				0.5					
	200410082	BEL8	55.11	22.3			97.5	0.5									
BL-02	200410044	BEL2	27.92	11.3			97.5										
	200410069	BEL5	141.14	57.12	97.5			0.5									
BL-01	200410048	BEL3	65.22	26.39			90	10									
	200410068	BEL4	264.86	107.19			97.5	0.5									

AENV Reach	I.D. Number	Polygon Name	Area		Breakdown of the area ADJACENT to the polygon into % of these land uses:												
			acres	hectares	No Land use	Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging	Mining	Railroads	Other	Other Comments
Total Polygons= 10			Sum of Polygons=		1	0	10	5	5	0	0	8	0	0	0	1	
			Constancy=		10.0%	0.0%	100.0%	50.0%	50.0%	0.0%	0.0%	80.0%	0.0%	0.0%	0.0%	10.0%	10 canal
BL-05	200410083	BEL9	104.38	42.24	80	97.5	97.5	0.5	3	10	0	0	0	0	0	1	
	200410084	BEL10	27.83	11.26													
BL-04	200410045	BEL1	36.99	14.97	70	10	97.5	0.5	20	3	0.5	0	0	0	0	0	
	200410070	BEL6	62.63	25.35													
BL-03	200410081	BEL7	45.33	18.34	70	0.5	70	0.5	20	3	0.5	0.5	10	0	0	0	
	200410082	BEL8	55.11	22.3													
BL-02	200410044	BEL2	27.92	11.3	97.5	97.5	97.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	200410069	BEL5	141.14	57.12													
BL-01	200410048	BEL3	65.22	26.39	90	10	97.5	3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	200410068	BEL4	264.86	107.19													

Summary of Waterbody Characteristics by AENV Reach - SSRB 2004

AENV Reach	Polygon ID Number	Polygon Name	Date Inventoried	System Name	System Type	Dominant Channel Bottom
BL-05	200410083	BEL9	7/26/2004	Belly River	River	Fine gravel
	200410084	BEL10	7/27/2004	Belly River	River	Sand
BL-04	200410045	BEL1	7/14/2004	Belly River	River	-
	200410070	BEL6	7/20/2004	Belly River	River	Small cobble
BL-03	200410081	BEL7	7/22/2004	Belly River	River	-
	200410082	BEL8	7/21/2004	Belly River	River	Silty clay
BL-02	200410044	BEL2	7/14/2004	Belly River	River	-
	200410069	BEL5	7/20/2004	Belly River	River	-
BL-01	200410048	BEL3	7/14/2004	Belly River	River	-
	200410068	BEL4	7/20/2004	Belly River	River	-

AENV Reach	Polygon ID Number	Polygon Name	Unstable Banks	Deep Binding Rootmass	Downcutting	Headcuts	Polygon Bare Ground	Structurally Altered Banks	Pugging and Hummocking	Channel Incisement	Lateral Cutting
BL-05	200410083	BEL9	6-25%	over 85%	0.00%	0	0.50%	0.00%	0.50%	A	40.00%
	200410084	BEL10	26-45%	0-35%	0.00%	0	20.00%	30.00%	0.50%	A	30.00%
BL-04	200410045	BEL1	6-25%	over 85%	0.00%	0	10.00%	3.00%	0.50%	A	10.00%
	200410070	BEL6	over 45%	66-85%	0.00%	0	10.00%	0.50%	0.50%	A	90.00%
BL-03	200410081	BEL7	0-5%	over 85%	0.00%	0	0.50%	10.00%	0.50%	A	0.50%
	200410082	BEL8	over 45%	over 85%	0.00%	0	0.50%	0.50%	0.50%	A	50.00%
BL-02	200410044	BEL2	0-5%	over 85%	0.00%	0	3.00%	0.00%	0.50%	A	60.00%
	200410069	BEL5	26-45%	over 85%	0.00%	0	0.50%	0.00%	0.00%	A	40.00%
BL-01	200410048	BEL3	26-45%	66-85%	0.00%	0	3.00%	3.00%	0.50%	A	40.00%
	200410068	BEL4	26-45%	over 85%	0.00%	0	0.50%	0.50%	0.00%	A	30.00%

Overall Site Summary: 29.80% 82.00% 0.00% 0 2.60% 4.30% 0.30% A 37.30%

AENV Reach	Polygon ID Number	Polygon Name	Acres	Hectares	River Miles	River Kilometers	Acres/River Kilometer	Riparian Zone Width	Riparian Zone Width	Riparian Zone Width
BL-05	200410083	BEL9	104.38	42.24	0.75	1.21	86.26	350	100	400
	200410084	BEL10	27.83	11.26	0.7	1.13	24.63	100	10	140
BL-04	200410045	BEL1	36.99	14.97	0.93	1.5	24.66	100	50	150
	200410070	BEL6	62.63	25.35	0.63	1.01	62.01	250	150	300
BL-03	200410081	BEL7	45.33	18.34	0.57	0.92	49.27	200	150	480
	200410082	BEL8	55.11	22.3	0.42	0.68	81.04	330	300	360
BL-02	200410044	BEL2	27.92	11.3	0.78	1.26	22.16	90	20	130
	200410069	BEL5	141.14	57.12	0.71	1.14	123.81	499.9	210	780
BL-01	200410048	BEL3	65.22	26.39	0.82	1.32	49.41	200	3	300
	200410068	BEL4	264.86	107.19	1.48	2.38	111.29	450	90	840

ID No.	Polygon Number	Length of streambank/polygon inventoried		Are bank materials present (Yes/No/ NA)	>20 inches (med boulders)	10-20 inches (small boulders)	5-10 inches (Large cobbles)	2.5-5 inches (small cobbles)	0.6-2.5 inches (coarse gravel)	0.08-0.6 inches (fine gravel)	0.062-2mm (sand)	<0.062mm (Silt and clay)
		(km)	(miles)									
200410044	BEL2	1.26	0.78	Yes	0.5	0.5	3	10	10	10	30	40
200410045	BEL1	1.5	0.93	Yes	0	0.5	3	20	20	20	10	30
200410048	BEL3	1.32	0.82	Yes	0.5	0.5	3	10	0.5	0.5	40	60
200410068	BEL4	2.38	1.48	Yes	0.5	0.5	0.5	3	10	3	20	70
200410069	BEL5	1.14	0.71	Yes	0.5	0.5	0.5	3	10	10	30	50
200410070	BEL6	1.01	0.63	Yes	0.5	0.5	3	40	10	3	10	40
200410081	BEL7	0.92	0.57	Yes	0.5	0.5	0.5	20	10	10	30	30
200410082	BEL8	0.68	0.42	Yes	0.5	0.5	0.5	10	10	0.5	3	80
200410083	BEL9	1.21	0.75	Yes	0.5	0.5	0.5	10	20	10	10	50
200410084	BEL10	1.13	0.7	Yes	3	3	20	20	20	10	20	10
STUDY AREA		12.55	7.79		0.70	0.75	3.45	14.60	12.05	7.70	20.30	46.00
Sum												
Average												

Number of Polygons=		6 River Health Evaluation Survey Forms ONLY																															
AENV Reach	ID No.	Cottonwood Regeneration from Seed				Regeneration of Other Tree Species				Preferred Shrub Species Establishment and Regeneration				Standing Decadent and Dead Woody Material				Preferred Tree and Shrub Species Utilisation				Total Canopy Cover of Woody Species				Invasive Herbaceous Species Canopy Cover				Invasive Herbaceous Species Density Distribution			
		1		2		3		4		5		6		7a		7b																	
		Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible						
SM-03	200410065 STM3	0	6	0	0	1	3	2	3	0	3	2	3	0	3	2	3	2	3	0	3	3	0	3	0	3							
	200410086 STM4	6	6	0	0	3	3	2	3	1	3	2.0	3	0.5	3	2.0	3	1	3	1.5	3	0.0	3	0.0	3								
	Average Score:		3.0	0.0		2.0		67%		17%		67%		50%		67%		50%		0%		0%		0%									
SM-02	200410062 STM1	4	6	0	0	3	3	3	3	2	3	3	3	2	3	1	3	0	3	0	3	0	3	0	3								
	200410067 STM5	6	6	0	0	3	3	3	3	2	3	3.0	3	2.0	3	1.0	3	0	3	0.0	3	0.0	3	0.0	3								
	Average Score:		5.0	0.0		3.0		100%		67%		33%		0%		1.0		3		0%		0%		0%									
SM-01	200410063 STM2	6	6	0	0	3	3	3	3	0	3	3	3	0	3	1	3	0	3	0	3	0	3	0	3								
	200410087 STM6	6	6	0	0	3	3	3	3	3	3	3.0	3	1.5	3	1.5	3	1	3	0.5	3	0.0	3										
	Average Score:		6.0	0.0		3.0		100%		50%		50%		17%		1.5		3		0%		0%		0%									
Total Score:		28	36	0	0	16	18	16	18	8	18	9	18	4	18	0	18	0	18	0	18	0	18	0	18								
Average Score		4.7		0.0		2.7		2.7		1.3		1.5		0.7		0.0		0.0		0.0		0.0		0.0									
Average Percent		77.8%		0.0%		88.9%		88.9%		44.4%		50.0%		22.2%		50.0%		22.2%		0%		0%		0%									

Summary of health parameters by category:

Healthy:	4
Healthy but with problems:	1
Unhealthy:	1

Number of Polygons=

AENV Reach	ID No.	Polygon	Disturbance-increaser Undesirable Herbaceous Species		Presence of Native Graminoids		Exotic Undesirable Woody Species		Riverbank Root Mass Protection		Human-Caused Bare Ground		Dewatering of the River System		Control of Flood Peak and Timing by Upstream Dam(s)		Human Alterations to the Riverbanks		
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	
SM-03	200410065	STM3	1	3	2	3	3	3	3	0	6	2	6	3	3	9	9	9	9
	200410086	STM4	2	3	2	3	3	3	4	6	6	6	3	3	9	9	9	9	
	Average Score:		1.5		2.0		3.0		2.0		4.0		3.0		9.0		9.0		
SM-02	Average Percent:		50%		67%		100%		33%		67%		33%		100%		100%		
	200410062	STM1	0	3	1	3	3	3	2	6	6	6	0	9	0	9	6	9	
	200410067	STM5	2	3	1	3	3	3	0	6	4	6	0	9	0	9	0	9	
SM-01	Average Score:		1.0		1.0		3.0		1.0		5.0		0.0		0.0		3.0		
	Average Percent:		33%		33%		100%		17%		83%		0%		0%		33%		
	200410063	STM2	0	3	1	3	3	3	2	6	6	6	0	9	0	9	9	9	
	200410087	STM6	0	3	2	3	3	3	0	6	6	6	0	9	3	9	9	9	
	Average Score:		0.0		1.5		3.0		1.0		6.0		0.0		1.5		9.0		
	Average Percent:		0%		50%		100%		17%		100%		0%		17%		100%		
Total Score:			5	18	9	18	18	18	8	36	30	36	6	54	21	54	42	54	
Average Score			0.8		1.5		3.0		1.3		5.0		1.0		3.5		7.0		
Average Percent			27.8%		50.0%		100.0%		22.2%		83.3%		11.1%		38.9%		77.8%		

Summary of health parameters by

category:

Healthy:

Healthy but with problems:

Unhealthy:

0	0	4	2	4
2	3	1	0	1
4	3	5	4	1

Number of Polygons=

AENV Reach	ID No.	Polygon	Floodplain Accessibility		Vegetation Total		Vegetation Percent		Soil/Hydrology Total		Hydrology Percent		Overall Total		Overall %		Overall Health Category
			16														
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible			
SM-03	200410065	STM3	6	6	13	33	39%	29	45	64%	42	78	54%	78	54%	78	Nonfunctional (Unhealthy)
	200410086	STM4	6	6	22	33	67%	37	45	82%	59	78	76%	78	76%	78	Functional At Risk (Healthy, but with Problems)
	Average Score:		6.0		17.5			33.0			73.3%			50.5			64.7%
	Average Percent:		100%														
SM-02	200410062	STM1	6	6	17	33	52%	20	45	44%	37	78	47%	78	47%	78	Nonfunctional (Unhealthy)
	200410067	STM5	6	6	21	33	64%	10	45	22%	31	78	40%	78	40%	78	Nonfunctional (Unhealthy)
	Average Score:		6.0		19.0			15.0			33.3%			34.0			43.6%
	Average Percent:		100%														
SM-01	200410063	STM2	6	6	17	33	52%	23	45	51%	40	78	51%	78	51%	78	Nonfunctional (Unhealthy)
	200410087	STM6	6	6	23	33	70%	24	45	53%	47	78	60%	78	60%	78	Functional At Risk (Healthy, but with Problems)
	Average Score:		6.0		20.0			23.5			52.2%			43.5			55.8%
	Average Percent:		100%														
Total Score:			36		113	198		143	270		256	468					
Average Score			6.0		18.8		57%	23.8		53%	42.7					55%	
Average Percent			100.0%		57.1%			53.0%			54.7%						

Summary of health parameters by

category:

6

Healthy but with problems:

0

Unhealthy:

0

Number of Sites per Health Category:

Overall %		Count		Health Category	
0.0%		0		healthy (proper functioning condition)	
33.3%		2		healthy but with problems (functional at risk)	
66.7%		4		unhealthy (nonfunctional)	

AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Trees			Shrubs			Grams		
					Canopy Cover	Polygon Size x % Canopy Cover of Trees		Canopy Cover	Polygon Size x % Canopy Cover of Shrubs		Canopy Cover	Polygon Size x % Canopy Cover of Graminoids	
					(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)
SM-03	200410065 STM3		146.54	59.3	0.5	73.27	29.65	0.005	0.73	0.30	0.8	117.23	47.44
	200410086 STM4		20.04	8.11	0.3	6.01	2.43	0.4	8.02	3.24	0.8	16.03	6.49
		Reach Total:	166.58	67.41		79.28	32.08		8.75	3.54		133.26	53.93
		Reach Average:	83.29	33.71		39.64	16.04		4.37	1.77		66.63	26.56
SM-02	200410062 STM1		4.95	2	0.005	0.02	0.01	0.1	0.50	0.20	0.6	2.97	1.20
	200410067 STM5		2.66	1.08	0.005	0.01	0.01	0.2	0.53	0.22	0.3	0.80	0.32
		Reach Total:	7.61	3.08		0.04	0.02		1.03	0.42		3.77	1.52
		Reach Average:	3.81	1.54		0.02	0.01		0.51	0.21		1.88	0.76
SM-01	200410063 STM2		26.24	10.62	0.005	0.13	0.05	0.1	2.62	1.06	0.7	18.37	7.43
	200410087 STM6		4.41	1.78	0.005	0.02	0.01	0.3	1.32	0.53	0.6	2.65	1.07
		Reach Total:	30.65	12.40		0.15	0.06		3.95	1.60		21.01	8.50
		Reach Average:	15.33	6.20		0.08	0.03		1.97	0.80		10.51	4.25
Overall total						79.4733	32.1604		13.7227	5.5525		158.046	63.954
Overall avg						13.25	5.36		2.29	0.93		26.34	10.66
Overall %						38.8%	38.8%		6.7%	6.7%		77.2%	77.2%
						Overall total tree acres/overall total polygon acres			Overall total shrub acres/overall total polygon acres			Overall total graminoid acres/overall total polygon acres	

	Forbs				Total Woodyies			Total all plant lifeforms			
	Canopy Cover	Polygon Size x % Canopy Cover of Forbs		Canopy Cover	Polygon Size x % Canopy Cover of Total Woodyies		Canopy Cover	Polygon Size x % Canopy Cover of all plant lifeforms			
	(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)		
SM-03	200410065 STM3	146.54	59.3	0.1	14.65	5.93	0.5	73.27	29.65		
	200410086 STM4	20.04	8.11	0.1	2.00	0.81	0.5	10.02	4.06		
	Reach Total:		166.58	67.41	16.66		6.74	83.29	33.71		
	Reach Average:		83.29	33.71	8.33		3.37	41.65	16.85		
SM-02	200410062 STM1	4.95	2	0.6	2.97	1.20	0.1	0.50	0.20		
	200410067 STM5	2.66	1.08	0.7	1.86	0.76	0.3	0.80	0.32		
	Reach Total:		7.61	3.08	4.83		1.96	1.29	0.52		
	Reach Average:		3.81	1.54	2.42		0.98	0.65	0.26		
SM-01	200410063 STM2	26.24	10.62	0.7	18.37	7.43	0.1	2.62	1.06		
	200410087 STM6	4.41	1.78	0.4	1.76	0.71	0.3	1.32	0.53		
	Reach Total:		30.65	12.40	20.13		8.15	3.95	1.60		
	Reach Average:		15.33	6.20	10.07		4.07	1.97	0.80		
Overall total		204.84	82.89	41.622		16.843	88.53		35.825		
Overall avg		34.14	13.82	6.94		2.81	14.76		5.97		
Overall %				20.3%		20.3%	43.2%		43.2%		
				Overall total forb acres/overall total polygon acres			Overall total woodyies acres/overall total polygon acres			Overall total all plant lifeforms acres/overall total polygon acres	

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²			Constancy ³	
		Area by Species		Avg	Range			
		acres	hectares area sp acres* 0.41					
TREES								
balsam poplar (<i>Populus balsamifera</i>)	native	48.03	19.45	26.90%	0.00%	30.00%	83.00%	
narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	31.36	12.70	17.80%	0.00%	20.00%	67.00%	
plains cottonwood (<i>Populus deltoides</i>)	native	0.15	0.06	0.50%	0.00%	0.50%	33.00%	
Total area covered by TREE species =		79.54	32.21					
SHRUBS								
sandbar willow (<i>Salix exigua</i>)	native	4.96	2.01	2.40%	0.50%	20.00%	100.00%	
water birch (<i>Betula occidentalis</i>)	native	4.03	1.63	16.10%	0.00%	20.00%	33.00%	
buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.54	1.43	1.70%	0.50%	10.00%	100.00%	
prickly rose (<i>Rosa acicularis</i>)	native	2.74	1.11	1.60%	0.00%	10.00%	33.00%	
silverberry (<i>Elaeagnus commutata</i>)	native	1.51	0.61	0.70%	0.00%	3.00%	83.00%	
creeping juniper (<i>Juniperus horizontalis</i>)	native	0.73	0.30	0.50%	0.00%	0.50%	17.00%	
shining willow (<i>Salix lucida</i>)	native	0.73	0.30	0.50%	0.00%	0.50%	17.00%	
shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.63	0.26	2.50%	0.00%	3.00%	33.00%	
choke cherry (<i>Prunus virginiana</i>)	native	0.53	0.21	4.40%	0.00%	10.00%	50.00%	
common wild rose (<i>Rosa woodsii</i>)	native	0.3	0.12	0.80%	0.00%	3.00%	67.00%	
Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.26	0.11	0.90%	0.00%	3.00%	50.00%	
yellow willow (<i>Salix lutea</i>)	native	0.19	0.08	0.50%	0.00%	0.50%	67.00%	
red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.16	0.06	0.50%	0.00%	0.50%	67.00%	
silver sagebrush (<i>Artemisia cana</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	33.00%	
willow (<i>Salix spp.</i>)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%	
false mountain willow (<i>Salix pseudomonticola</i>)	native	0.1	0.04	0.50%	0.00%	0.50%	17.00%	
northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.05	0.02	0.50%	0.00%	0.50%	33.00%	
ground juniper (<i>Juniperus communis</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%	
beaked willow (<i>Salix bebbiana</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%	
peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%	
thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%	
western clematis (<i>Clematis ligusticifolia</i>)	native	0.01	0.004	0.50%	0.00%	0.50%	17.00%	
skunkbush (<i>Rhus trilobata</i>)	native	0.01	0.004	0.50%	0.00%	0.50%	17.00%	
Total area covered by SHRUBS species =		20.87	8.45					
GRASSES AND GRASS-LIKES								
Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	46.35	18.77	22.60%	0.50%	30.00%	100.00%	
fescue (<i>Festuca spp.</i>)	unknown	29.41	11.91	17.70%	0.00%	20.00%	33.00%	
green needle grass (<i>Stipa viridula</i>)	native	15.45	6.26	7.50%	0.50%	10.00%	100.00%	
Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	14.82	6.00	8.20%	0.00%	10.00%	67.00%	
smooth brome (<i>Bromus inermis</i>)	disturbance	9.87	4.00	4.80%	0.50%	30.00%	100.00%	
western wheat grass (<i>Agropyron smithii</i>)	native	9.43	3.82	4.60%	0.50%	20.00%	100.00%	
japanese chess (<i>Bromus japonicus</i>)	disturbance	6.58	2.66	19.80%	0.00%	30.00%	50.00%	
redtop (<i>Agrostis stolonifera</i>)	introduced	5.23	2.12	2.60%	0.50%	20.00%	100.00%	
quack grass (<i>Agropyron repens</i>)	disturbance	3.72	1.51	9.70%	0.00%	20.00%	67.00%	
downy chess (<i>Bromus tectorum</i>)	invasive	2.9	1.17	1.70%	0.00%	10.00%	67.00%	
needle-and-thread (<i>Stipa comata</i>)	native	2.77	1.12	1.60%	0.00%	10.00%	67.00%	
slender wheat grass (<i>Agropyron trachycaulum</i>)	native	2.66	1.08	8.00%	0.00%	10.00%	50.00%	
June grass (<i>Koeleria macrantha</i>)	native	1.39	0.56	0.80%	0.00%	3.00%	83.00%	
tufted hair grass (<i>Deschampsia cespitosa</i>)	native	1.05	0.43	0.60%	0.00%	3.00%	83.00%	
timothy (<i>Phleum pratense</i>)	disturbance	1	0.41	0.50%	0.00%	0.50%	83.00%	
blue grama (<i>Bouteloua gracilis</i>)	native	0.98	0.40	4.00%	0.00%	20.00%	33.00%	
foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.92	0.37	0.50%	0.00%	0.50%	83.00%	
reed canary grass (<i>Phalaris arundinacea</i>)	native	0.92	0.37	0.50%	0.00%	0.50%	83.00%	
crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.91	0.37	0.50%	0.00%	0.50%	67.00%	
orchard grass (<i>Dactylis glomerata</i>)	introduced	0.83	0.34	0.50%	0.00%	0.50%	33.00%	
small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.78	0.32	0.50%	0.00%	0.50%	50.00%	
wire rush (<i>Juncus balticus</i>)	native	0.77	0.31	0.50%	0.00%	0.50%	50.00%	
woolly sedge (<i>Carex lanuginosa</i>)	native	0.76	0.31	0.50%	0.00%	0.50%	33.00%	
small bottle sedge (<i>Carex utriculata</i>)	native	0.73	0.30	0.50%	0.00%	0.50%	17.00%	
creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.19	0.08	0.50%	0.00%	0.50%	67.00%	
common great bulrush (<i>Scirpus validus</i>)	native	0.18	0.07	0.50%	0.00%	0.50%	50.00%	
short-awned foxtail (<i>Alopecurus aequalis</i>)	native	0.16	0.06	0.50%	0.00%	0.50%	33.00%	
Canada wild rye (<i>Elymus canadensis</i>)	native	0.15	0.06	0.50%	0.00%	0.50%	33.00%	
sedge (<i>Carex spp.</i>)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%	
Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%	
three-square rush (<i>Scirpus pungens</i>)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%	
alkali cord grass (<i>Spartina gracilis</i>)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%	
sand grass (<i>Calamovilla longifolia</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%	
wild rye (<i>Elymus spp.</i>)	unknown	0.02	0.01	0.50%	0.00%	0.50%	17.00%	
bluejoint (<i>Calamagrostis canadensis</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%	
hairy wild rye (<i>Elymus innovatus</i>)	native	0.01	0.004	0.50%	0.00%	0.50%	17.00%	
Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.01	0.004	0.50%	0.00%	0.50%	17.00%	
Total area covered by GRASS AND GRASS-LIKE species =		161.53	65.42					
FORBS								
leafy spurge (<i>Euphorbia esula</i>)	invasive	19.94	8.08	34.20%	0.00%	60.00%	83.00%	
wild licorice (<i>Glycyrrhiza lepidota</i>)	native	2.28	0.92	1.10%	0.00%	3.00%	83.00%	
pasture sagewort (<i>Artemisia frigida</i>)	native	1.37	0.55	0.80%	0.00%	3.00%	67.00%	
flixweed (<i>Descurainia sophia</i>)	disturbance	1.09	0.44	0.50%	0.50%	3.00%	100.00%	
Canada thistle (<i>Cirsium arvense</i>)	invasive	1.02	0.41	0.50%	0.50%	0.50%	100.00%	
common scouring-rush (<i>Equisetum hyemale</i>)	native	1.02	0.41	0.50%	0.50%	0.50%	100.00%	
silverweed (<i>Potentilla anserina</i>)	disturbance	1.02	0.41	0.50%	0.50%	0.50%	100.00%	
common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	1.00	0.41	0.50%	0.00%	0.50%	83.00%	
hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	1.00	0.41	0.50%	0.00%	0.50%	83.00%	

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy*Cover ²			Constancy ³
		Area by Species		Avg	Range		
		acres	hectares				
			area sp. acres* 0.41				
FORBS continued							
common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.99	0.40	0.50%	0.00%	0.50%	67.00%
common yarrow (<i>Achillea millefolium</i>)	native	0.92	0.37	0.50%	0.00%	0.50%	83.00%
black medick (<i>Medicago lupulina</i>)	introduced	0.92	0.37	0.50%	0.00%	0.50%	83.00%
yellow sweet-clover (<i>Mellilotus officinalis</i>)	disturbance	0.92	0.37	1.60%	0.00%	3.00%	83.00%
common horsetail (<i>Equisetum arvense</i>)	poisonous	0.91	0.37	0.50%	0.00%	0.50%	67.00%
wild mint (<i>Mentha arvensis</i>)	native	0.89	0.36	0.50%	0.00%	0.50%	83.00%
wild blue flax (<i>Linum lewisii</i>)	native	0.88	0.36	0.50%	0.00%	0.50%	67.00%
common mullein (<i>Verbascum thapsus</i>)	introduced	0.86	0.35	0.50%	0.00%	0.50%	33.00%
bull thistle (<i>Cirsium vulgare</i>)	introduced	0.85	0.34	0.50%	0.00%	0.50%	50.00%
small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.85	0.34	0.50%	0.00%	0.50%	50.00%
absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.85	0.34	0.50%	0.00%	0.50%	50.00%
tall buttercup (<i>Ranunculus acris</i>)	invasive	0.83	0.34	0.50%	0.00%	0.50%	33.00%
wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.78	0.32	0.50%	0.00%	0.50%	50.00%
common plantain (<i>Plantago major</i>)	disturbance	0.78	0.32	0.50%	0.00%	0.50%	50.00%
prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.78	0.32	1.40%	0.00%	3.00%	67.00%
erigeron (<i>Erigeron</i> spp.)	unknown	0.75	0.30	0.50%	0.00%	0.50%	33.00%
white sweet-clover (<i>Mellilotus alba</i>)	disturbance	0.73	0.30	1.90%	0.00%	10.00%	67.00%
ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.73	0.30	0.50%	0.00%	0.50%	17.00%
Forb (<i>Forb</i>)	unknown	0.73	0.30	0.50%	0.00%	0.50%	17.00%
western bluebur (<i>Lappula occidentalis</i>)	native	0.73	0.30	0.50%	0.00%	0.50%	17.00%
sweet clover (<i>Mellilotus</i> spp.)	disturbance	0.73	0.30	0.50%	0.00%	0.50%	17.00%
heal-all (<i>Prunella vulgaris</i>)	native	0.73	0.30	0.50%	0.00%	0.50%	17.00%
white clover (<i>Trifolium repens</i>)	disturbance	0.73	0.30	0.50%	0.00%	0.50%	17.00%
common cattail (<i>Typha latifolia</i>)	native	0.73	0.30	0.50%	0.00%	0.50%	17.00%
tufted vetch (<i>Vicia cracca</i>)	introduced	0.73	0.30	0.50%	0.00%	0.50%	17.00%
plains wormwood (<i>Artemisia campestris</i>)	native	0.54	0.22	2.20%	0.00%	10.00%	33.00%
wild bergamot (<i>Monarda fistulosa</i>)	native	0.3	0.12	0.80%	0.00%	3.00%	67.00%
stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.29	0.12	0.50%	0.00%	0.50%	83.00%
curled dock (<i>Rumex crispus</i>)	introduced	0.27	0.11	0.50%	0.00%	0.50%	67.00%
silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.26	0.11	0.50%	0.00%	0.50%	50.00%
showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.19	0.08	0.50%	0.00%	0.50%	67.00%
yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.19	0.08	0.50%	0.00%	0.50%	67.00%
rough cinquefoil (<i>Potentilla norvegica</i>)	disturbance	0.19	0.08	0.50%	0.00%	0.50%	67.00%
alfalfa (<i>Medicago sativa</i>)	introduced	0.18	0.07	0.50%	0.00%	0.50%	50.00%
seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.18	0.07	0.50%	0.00%	0.50%	50.00%
perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.18	0.07	0.50%	0.00%	0.50%	50.00%
butte-primrose (<i>Oenothera caespitosa</i>)	native	0.17	0.07	0.50%	0.00%	0.50%	50.00%
common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.17	0.07	0.50%	0.00%	0.50%	50.00%
gumweed (<i>Grindelia squarrosa</i>)	native	0.17	0.07	0.50%	0.00%	0.50%	50.00%
Canada goldenrod (<i>Solidago canadensis</i>)	native	0.16	0.06	0.50%	0.00%	0.50%	67.00%
ball mustard (<i>Neslia paniculata</i>)	disturbance	0.16	0.06	0.50%	0.00%	0.50%	33.00%
wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.15	0.06	0.50%	0.00%	0.50%	33.00%
common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.15	0.06	0.50%	0.00%	0.50%	33.00%
bluebur (<i>Lappula squarrosa</i>)	disturbance	0.15	0.06	2.10%	0.00%	3.00%	33.00%
Russian-thistle (<i>Salsola kali</i>)	disturbance	0.15	0.06	2.10%	0.00%	3.00%	33.00%
sand-lily (<i>Mentzelia decapetala</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	33.00%
gaillardia (<i>Gaillardia aristata</i>)	native	0.14	0.06	0.50%	0.00%	0.50%	50.00%
mustard (<i>Brassica</i> spp.)	unknown	0.13	0.05	0.50%	0.00%	0.50%	17.00%
cream-colored vetchling (<i>Lathyrus ochroleucus</i>)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
common burdock (<i>Arctium minus</i>)	disturbance	0.12	0.05	0.50%	0.00%	0.50%	33.00%
nodding onion (<i>Allium cernuum</i>)	native	0.11	0.04	0.50%	0.00%	0.50%	33.00%
shining arnica (<i>Arnica fulgens</i>)	native	0.1	0.04	0.50%	0.00%	0.50%	17.00%
shepherd's-purse (<i>Capsella bursa-pastoris</i>)	disturbance	0.1	0.04	0.50%	0.00%	0.50%	17.00%
lamb's-quarters (<i>Chenopodium album</i>)	disturbance	0.1	0.04	0.50%	0.00%	0.50%	17.00%
creeping fleabane (<i>Erigeron flagellaris</i>)	native	0.1	0.04	0.50%	0.00%	0.50%	17.00%
yellowbell (<i>Fritillaria pudica</i>)	native	0.1	0.04	0.50%	0.00%	0.50%	17.00%
northern bedstraw (<i>Galium boreale</i>)	native	0.1	0.04	0.50%	0.00%	0.50%	17.00%
northern hedysarum (<i>Hedysarum boreale</i>)	native	0.1	0.04	0.50%	0.00%	0.50%	17.00%
early yellow locoweed (<i>Oxytropis sericea</i>)	poisonous	0.1	0.04	0.50%	0.00%	0.50%	17.00%
showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.1	0.04	0.50%	0.00%	0.50%	17.00%
seaside arrow-grass (<i>Triglochin maritima</i>)	poisonous	0.1	0.04	0.50%	0.00%	0.50%	17.00%
willowherb (<i>Epilobium glaberrimum</i>)	native	0.08	0.03	3.00%	0.00%	3.00%	17.00%
golden aster (<i>Heterotheca villosa</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%
cocklebur (<i>Xanthium strumarium</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%
Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.04	0.02	0.50%	0.00%	0.50%	33.00%
sneezeweed (<i>Helenium autumnale</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%
prickly lettuce (<i>Lactuca serriola</i>)	introduced	0.04	0.02	0.50%	0.00%	0.50%	33.00%
prairie coneflower (<i>Ratibida columnifera</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%
common nettle (<i>Urtica dioica</i>)	native	0.04	0.02	0.50%	0.00%	0.50%	33.00%
broomweed (<i>Gutierrezia sarothrae</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
western dock (<i>Rumex occidentalis</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
golden bean (<i>Thermopsis rhombifolia</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.02	0.01	0.50%	0.00%	0.50%	17.00%
American dragonhead (<i>Dracocephalum parviflorum</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
common fireweed (<i>Epilobium angustifolium</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²			Constancy ³
		Area by Species		Avg	Range		
		acres	hectares				
		area sp acres* 0.41					
FORBS continued							
northern willowherb (<i>Epilobium ciliatum</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
cleavers (<i>Galium aparine</i>)	invasive	0.02	0.01	0.50%	0.00%	0.50%	17.00%
wild vetch (<i>Vicia americana</i>)	native	0.02	0.01	0.50%	0.00%	0.50%	17.00%
water smartweed (<i>Polygonum amphibium</i>)	native	0.01	0.004	0.50%	0.00%	0.50%	17.00%
celery-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.01	0.004	0.50%	0.00%	0.50%	17.00%
marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.01	0.004	0.50%	0.00%	0.50%	17.00%
Total area covered by FORB species =		56.63	22.94				

Summary		Total # of native plants =		94
Total # of species = 154		Total # of restricted weeds =		0
Total # of TREE species = 3		Total # of invasive weeds =		8
Total # of SHRUB species = 23		Total # of disturbance plants =		27
Total # of GRAM species = 37		Total # of plants with poisononus properties =		6
Total # of FORB species = 91				

¹ Plant status is designated by Cows and Fish in association with Alberta Agriculture, Food and Rural Development and the Alberta Weed Control Act.
'unknown' = plant not identified to species plant status unknown.

² Based on visual estimates of the amount of ground the canopy of the plant covers. The percent cover values presented are the mid-values for the following ranges: 0.5=less than 1%; 3.0=1%-5%; 10.0=5%-15%; 20.0=15%-25%; 30.0=25%-35%; 40.0=35%-45%; 50.0=45%-55%; 60.0=55%-65%; 70.0=65%-75%; 80.0=75%-85%; 90.0=85%-95%; 97.5=greater than 95%; — = not observed.

³ Constancy is the number of times the species occurs divided by the total number of polygons.

Riparian Plant Information (STMI)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² STMI
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	0.5
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	10.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	disturbance	3.0
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	quack grass (<i>Agropyron repens</i>)	disturbance	20.0
	redtop (<i>Agrostis stolonifera</i>)	native	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	short-awned foxtail (<i>Alopecurus aequalis</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wild rye (<i>Elymus spp.</i>)	unknown	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	disturbance	0.5
	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	ball mustard (<i>Neslia paniculata</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	broomweed (<i>Gutierrezia sarothrae</i>)	native	0.5
	butte-primrose (<i>Oenothera caespitosa</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	cocklebur (<i>Xanthium strumarium</i>)	native	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	50.0
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5

Riparian Plant Information (STM1)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM1
Forbs (broad leaf plants)	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	western dock (<i>Rumex occidentalis</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.0

Riparian Plant Information (STM2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM2
Trees	plains cottonwood (<i>Populus deltoides</i>)	native	0.5
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
	willow (<i>Salix spp.</i>)	unknown	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	alkali cord grass (<i>Spartina gracilis</i>)	native	0.5
	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	20.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	native	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	sedge (<i>Carex spp.</i>)	unknown	0.5
	short-awned foxtail (<i>Alopecurus aequalis</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	10.0
	smooth brome (<i>Bromus inermis</i>)	disturbance	20.0
	three-square rush (<i>Scirpus pungens</i>)	native	0.5
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0

Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	disturbance	0.5
	ball mustard (<i>Neslia paniculata</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	butte-primrose (<i>Oenothera caespitosa</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common mullein (<i>Verbascum thapsus</i>)	native	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	cream-colored vetchling (<i>Lathyrus ochroleucus</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	60.0
	mustard (<i>Brassica spp.</i>)	unknown	0.5

Riparian Plant Information (STM2)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM2
Forbs (broad leaf plants)	perennial sow-thistle (<i>Sonchus arvensis</i>)	<i>invasive</i>	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	native	0.5
	sand-lily (<i>Mentzelia decapetala</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	<i>poisonous</i>	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	<i>disturbance</i>	0.5
	stinkweed (<i>Thlaspi arvense</i>)	<i>disturbance</i>	0.5
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	<i>disturbance</i>	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	<i>disturbance</i>	0.5

Riparian Plant Information (STM3)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM3
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	20.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	shining willow (<i>Salix lucida</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	10.0
	crested wheat grass (<i>Agropyron pectiniforme</i>)	<i>disturbance</i>	0.5
	downy chess (<i>Bromus tectorum</i>)	<i>invasive</i>	0.5
	fescue (<i>Festuca spp.</i>)	unknown	20.0
	foxtail barley (<i>Hordeum jubatum</i>)	<i>disturbance</i>	0.5
	green needle grass (<i>Stipa viridula</i>)	native	10.0
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	30.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	orchard grass (<i>Dactylis glomerata</i>)	<i>introduced</i>	0.5
	redtop (<i>Agrostis stolonifera</i>)	<i>introduced</i>	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	<i>disturbance</i>	0.5
	timothy (<i>Phleum pratense</i>)	<i>disturbance</i>	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	<i>introduced</i>	0.5
	black medick (<i>Medicago lupulina</i>)	<i>introduced</i>	0.5
	bull thistle (<i>Cirsium vulgare</i>)	<i>introduced</i>	0.5
	Canada thistle (<i>Cirsium arvense</i>)	<i>invasive</i>	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	<i>disturbance</i>	0.5
	common horsetail (<i>Equisetum arvense</i>)	<i>poisonous</i>	0.5
	common mullein (<i>Verbascum thapsus</i>)	<i>introduced</i>	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	<i>introduced</i>	0.5
	common plantain (<i>Plantago major</i>)	<i>disturbance</i>	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	<i>disturbance</i>	0.5
	Forb (<i>Forb</i>)	unknown	0.5
	heal-all (<i>Prunella vulgaris</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	<i>invasive</i>	0.5

Riparian Plant Information (STM3)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² STM3
Forbs (broad leaf plants)	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	<i>invasive</i>	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	<i>disturbance</i>	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	<i>disturbance</i>	0.5
	sweet clover (<i>Melilotus spp.</i>)	<i>disturbance</i>	0.5
	tall buttercup (<i>Ranunculus acris</i>)	<i>invasive</i>	0.5
	tufted vetch (<i>Vicia cracca</i>)	<i>introduced</i>	0.5
	western bluebur (<i>Lappula occidentalis</i>)	native	0.5
	white clover (<i>Trifolium repens</i>)	<i>disturbance</i>	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	<i>disturbance</i>	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5

Riparian Plant Information (STM4)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² STM4
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	20.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	10.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	false mountain willow (<i>Salix pseudomonticola</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	10.0
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	water birch (<i>Betula occidentalis</i>)	native	20.0
Grasses (and Grass-like species)	blue grama (<i>Bouteloua gracilis</i>)	native	0.5
	downy chess (<i>Bromus tectorum</i>)	<i>invasive</i>	10.0
	fescue (<i>Festuca spp.</i>)	unknown	0.5
	green needle grass (<i>Stipa viridula</i>)	native	3.0
	June grass (<i>Koeleria macrantha</i>)	native	3.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	10.0
	needle-and-thread (<i>Stipa comata</i>)	native	10.0
	orchard grass (<i>Dactylis glomerata</i>)	<i>introduced</i>	0.5
	redtop (<i>Agrostis stolonifera</i>)	<i>introduced</i>	20.0
	smooth brome (<i>Bromus inermis</i>)	<i>disturbance</i>	10.0
	timothy (<i>Phleum pratense</i>)	<i>disturbance</i>	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	20.0
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	<i>introduced</i>	0.5
	bull thistle (<i>Cirsium vulgare</i>)	<i>introduced</i>	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	<i>invasive</i>	0.5
	common burdock (<i>Arctium minus</i>)	<i>disturbance</i>	0.5
	common dandelion (<i>Taraxacum officinale</i>)	<i>disturbance</i>	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	<i>introduced</i>	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	creeping fleabane (<i>Erigeron flagellaris</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	<i>introduced</i>	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	<i>poisonous</i>	0.5
	flixweed (<i>Descurainia sophia</i>)	<i>disturbance</i>	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	<i>invasive</i>	0.5
	lamb's-quarters (<i>Chenopodium album</i>)	<i>disturbance</i>	0.5
	leafy spurge (<i>Euphorbia esula</i>)	<i>invasive</i>	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	northern hedysarum (<i>Hedysarum boreale</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	3.0
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	3.0
	seaside arrow-grass (<i>Triglochin maritima</i>)	<i>poisonous</i>	0.5
	shepherd's-purse (<i>Capsella bursa-pastoris</i>)	<i>disturbance</i>	0.5
	shining arnica (<i>Arnica fulgens</i>)	native	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	<i>poisonous</i>	0.5

Riparian Plant Information (STM4)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM4
Forbs (broad leaf plants)	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	3.0
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	disturbance	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	3.0
	yellowbell (<i>Fritillaria pudica</i>)	native	0.5

Riparian Plant Information (STM 5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM5
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	20.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5

Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	hairy wild rye (<i>Elymus innovatus</i>)	native	0.5
	Indian Rice Grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	sand grass (<i>Calamovilla longifolia</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	10.0
	timothy (<i>Phleum pratense</i>)	disturbance	0.5
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	absinthe wormwood (<i>Artemisia absinthium</i>)	introduced	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	butte-primrose (<i>Oenothera caespitosa</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	celery-leaved buttercup (<i>Ranunculus sceleratus</i>)	native	0.5
	cocklebur (<i>Xanthium strumarium</i>)	native	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	3.0
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5

Riparian Plant Information (STM 5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM5
Forbs (broad leaf plants)	hound's-tongue (<i>Cynoglossum officinale</i>)	<i>invasive</i>	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	<i>poisonous</i>	0.5
	leafy spurge (<i>Euphorbia esula</i>)	<i>invasive</i>	60.0
	marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prickly lettuce (<i>Lactuca serriola</i>)	<i>introduced</i>	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	<i>disturbance</i>	0.5
	Russian-thistle (<i>Salsola kali</i>)	<i>disturbance</i>	0.5
	sand-lily (<i>Mentzelia decapetala</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	<i>poisonous</i>	0.5
	silver sagebrush (<i>Artemisia cana</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	<i>disturbance</i>	0.5
	small-leaved everlasting (<i>Antennaria parvifolia</i>)	<i>disturbance</i>	0.5
	sneezeweed (<i>Helenium autumnale</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	<i>disturbance</i>	0.5
	water smartweed (<i>Polygonum amphibium</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	<i>disturbance</i>	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	willowherb (<i>Epilobium glaberrimum</i>)	native	3.0
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	<i>disturbance</i>	0.5

Riparian Plant Information (STM6)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM6
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	0.5
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	0.5
	plains cottonwood (<i>Populus deltoides</i>)	native	0.5
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	peach-leaved willow (<i>Salix amygdaloides</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	10.0
	saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	0.5
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Bearded Wheatgrass (<i>Agropyron subsecundum</i>)	native	0.5
	blue grama (<i>Bouteloua gracilis</i>)	native	20.0
	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	<i>introduced</i>	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	<i>disturbance</i>	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	<i>invasive</i>	30.0
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	0.5
	needle-and-thread (<i>Stipa comata</i>)	native	0.5
	redtop (<i>Agrostis stolonifera</i>)	native	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	<i>disturbance</i>	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0

Riparian Plant Information (STM6)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	STM6
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	disturbance	0.5
	American dragonhead (<i>Dracocephalum parviflorum</i>)	native	0.5
	black medick (<i>Medicago lupulina</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	3.0
	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	cleavers (<i>Galium aparine</i>)	invasive	0.5
	common fireweed (<i>Epilobium angustifolium</i>)	native	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	leafy spurge (<i>Euphorbia esula</i>)	invasive	0.5
	northern willowherb (<i>Epilobium ciliatum</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	10.0
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	prickly lettuce (<i>Lactuca serriola</i>)	introduced	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	native	0.5
	Russian-thistle (<i>Salsola kali</i>)	disturbance	3.0
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy milkweed (<i>Asclepias speciosa</i>)	poisonous	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	sneezeweed (<i>Helenium autumnale</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	10.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	3.0
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

					Disturbance-Caused Undesirable Species		
						Polygon Area in Acres x % Canopy Cover	Polygon Area in Hectares x % Canopy Cover
AENV Reach	Polygon ID Number	Polygon Name	Size (acres)	Size (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)
SM-03	200410065	STM3	146.54	59.3	0.3	43.96	17.79
	200410086	STM4	20.04	8.11	0.2	4.01	1.62
Reach Total:			166.58	67.41		47.97	19.41
Reach Average:			83.29	33.71		23.99	9.71
SM-02	200410062	STM1	4.95	2	0.6	2.97	1.20
	200410067	STM5	2.66	1.08	0.2	0.53	0.22
Reach Total:			7.61	3.08		3.50	1.42
Reach Average:			3.81	1.54		1.75	0.71
SM-01	200410063	STM2	26.24	10.62	0.5	13.12	5.31
	200410087	STM6	4.41	1.78	0.5	2.21	0.89
Reach Total:			30.65	12.40		15.33	6.20
Reach Average:			15.33	6.20		7.66	3.10
	Overall total		204.8	82.9		66.8	27.0
	Overall avg		34.1	13.8		11.1	4.5
	Overall %					32.6%	32.6%

AENV Reach	ID No.	Polygon Name	Total # polygons = 6		Are noxious weeds present?	Canada Thistle				Common Hound's tongue				Leafy Spurge			
			Acres	Hectares		Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares
SM-03	200410065	STM3	146.54	59.3	Yes	0.005	8	0.73	0.30	0.005	1	0.73	0.30	0	0.00	0.00	
	200410086	STM4	20.04	8.11	Yes	0.005	6	0.10	0.04	0.005	2	0.10	0.04	0.005	2	0.10	0.04
	Reach Total:		166.58	67.41				0.83	0.34			0.83	0.34			0.10	0.04
	Reach Average:		83.29	33.71				0.42	0.17			0.42	0.17			0.05	0.02
SM-02	200410062	STM1	4.95	2	Yes	0.005	6	0.02	0.01	0	0.00	0.00	0.00	0.5	12	2.48	1.00
	200410087	STM5	2.66	1.08	Yes	0.005	5	0.01	0.01	0.005	5	0.01	0.01	0.6	12	1.60	0.65
	Reach Total:		7.61	3.08				0.04	0.02			0.01	0.01			4.07	1.65
	Reach Average:		3.81	1.54				0.02	0.01			0.01	0.00			2.04	0.82
SM-01	200410063	STM2	26.24	10.62	Yes	0.005	7	0.13	0.05	0.005	1	0.13	0.05	0.6	12	15.74	6.37
	200410087	STM6	4.41	1.78	Yes	0.005	5	0.02	0.01	0.005	5	0.02	0.01	0.03	8	0.13	0.05
	Reach Total:		30.65	12.40				0.15	0.06			0.15	0.06			15.88	6.43
	Reach Average:		15.33	6.20				0.08	0.03			0.08	0.03			7.94	3.21
Total Area Percent of total area			204.84	82.89			1.02	0.41	0.5%		1.00	0.40	0.5%		20.05	8.11	
							0.5%	0.5%			0.5%	0.5%			9.8%	9.8%	

*Constancy is the number of times the species was observed in the St.Mary River Project area

AENV Reach	ID No.	Polygon Name	Total # polygons = 6		Are noxious weeds present?	Ox-eye Daisy			Perennial Sow-thistle			Tail Buttercup				
			Acres	Hectares		Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied	Acres	Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied	Acres	Hectares	
SM-03	200410065	STM3	146.54	59.3	Yes	0.005	5	0.73	0.30	0	0.00	0.00	0.005	5	0.73	0.30
	200410066	STM4	20.04	8.11	Yes	0	0.00	0.00	0.00	0	0.00	0.00	0.005	6	0.10	0.04
	Reach Total:		166.58	67.41				0.73	0.30			0.00			0.83	0.34
		Reach Average:		83.29	33.71			0.37	0.15			0.00			0.42	0.17
SM-02	200410062	STM1	4.95	2	Yes	0	0.00	0.00	0.00	0.005	2	0.02	0.01	0	0.00	0.00
	200410067	STM5	2.66	1.08	Yes	0	0.00	0.00	0.00	0	0.00	0.00	0	0.00	0.00	0.00
	Reach Total:		7.61	3.08				0.00	0.00			0.02	0.01		0.00	0.00
		Reach Average:		3.81	1.54			0.00	0.00			0.01	0.01		0.00	0.00
SM-01	200410063	STM2	26.24	10.62	Yes	0	0.00	0.00	0.00	0.005	6	0.13	0.05	0	0.00	0.00
	200410087	STM6	4.41	1.78	Yes	0	0.00	0.00	0.00	0.005	5	0.02	0.01	0	0.00	0.00
	Reach Total:		30.65	12.40				0.00	0.00			0.15	0.06		0.00	0.00
		Reach Average:		15.33	6.20			0.00	0.00			0.08	0.03		0.00	0.00
Total Area Percent of total area			204.84	82.89			0.73	0.30			0.18	0.07		0.83	0.34	
							0.4%	0.4%			0.1%	0.1%		0.4%	0.4%	

*Constancy is the number of times the species was observed in the St.Mary River Project area

Total # polygons = 6						Downy Chess				Total (All Weeds)			
AENV Reach	ID No.	Polygon Name	Acres	Hectares	Are noxious weeds present?	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares	Total Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares
SM-03	200410065	STM3	146.54	59.3	Yes	0.1		0.00	0.00	0.005	8	0.73	0.30
	200410086	STM4	20.04	8.11	Yes			2.00	0.81	0.1	9	2.00	0.81
	Reach Total:		166.58	67.41				2.00	0.81			2.74	1.11
	Reach Average:		83.29	33.71				1.00	0.41			1.37	0.55
SM-02	200410062	STM1	4.95	2	Yes	0.03	4	0.15	0.06	0.5	12	2.48	1.00
	200410067	STM5	2.66	1.08	Yes	0.005	5	0.01	0.01	0.6	12	1.60	0.65
	Reach Total:		7.61	3.08			0.16	0.07			4.07	1.65	
	Reach Average:		3.81	1.54			0.08	0.03			2.04	0.82	
SM-01	200410063	STM2	26.24	10.62	Yes			0.00	0.00	0.6	12	15.74	6.37
	200410087	STM6	4.41	1.78	Yes			0.00	0.00	0.03	8	0.13	0.05
	Reach Total:		30.65	12.40				0.00	0.00			15.88	6.43
	Reach Average:		15.33	6.20				0.00	0.00			7.94	3.21
Total Area Percent of total area			204.84	82.89			2.17	0.88				22.68	9.18
							1.1%	1.1%				11.1%	11.1%

*Constancy is the number of times the species was observed in the St.Mary River Project area

AENV Reach	ID Number	Polygon Number	Polygon Size		Classification	Type Name	Percent of Polygon = Cover	Area of Type		Comments
			(acres)	(hectares)				(acres)	(hectares)	
SM-03	200410065	STM3	146.54	59.3	POPUBAL/Herbaceous CT		0.975	142.88	57.82	Mainly fits the area outside of the gravel dominated meander lobes, but the meander lobes could potentially have more of a POPUBAL/RAB component if given adequate rest and time. Overstory trees are almost all mature age classes. 7.30 1 CORNSTO shrub was found 0.81 Artemisia frig present and cutbanks revegetating
	200410086	STM4	20.04	8.11	POPUBAL/SYMPOCC CT		0.9	18.04	7.30	
	200410086	STM4	20.04	8.11	SYMPOCC CT		0.1	2.00	0.81	
SM-02	200410062	STM1	4.95	2	POPuang/CORNSTO CT		0.975	4.83	1.95	Mature POPUANG and upper end, seedling/saplings throughout. CORNSTO present however minimal. Had to reduce the key down to trees present to get this community type. On the wider portions of the meander lobes, EUPHESU dominates this area and SYMPOCC only covers approximately 5% of the entire riparian area. 0.22 Successfully regenerating along the steep cutbank
	200410067	STM5	2.66	1.08	SYMPOCC CT		0.8	2.13	0.86	
	200410067	STM5	2.66	1.08	SALIEXI CT		0.2	0.53	0.22	
SM-01	200410063	STM2	26.24	10.62	SALIEXI CT		0.975	25.58	10.35	Some prolific stands occurring along gravel floodplain Along the lower banks, EUPHESU and POPLAR regeneration abundant, as well as MELIALB. Along the top of the bank mostly grasses, BROMJAP at the lower end and BOUTGRA at the upper end.
	200410087	STM6	4.41	1.78	SALIEXI CT		0.5	2.21	0.89	
	200410087	STM6	4.41	1.78	SYMPOCC CT		0.5	2.21	0.89	
Seven Letter Code										
POPuang/CORNSTO CT			Habitat or Community Type Name							
POPUBAL/HERB CT			Populus angustifolia/Cornus stolonifera Community Type							
POPUBAL/SYMPOCC CT			Populus balsamifera/Herbaceous Community Type							
SALIEXI CT			Populus balsamifera/Symphoricarpos occidentalis Community Type							
SYMPOCC CT			Salix exigua Community Type							
			Symphoricarpos occidentalis Community Type							

Logging, Recreation, Railroads, Vegetation Removal and Mine tailing are factors NOT contributing to structurally altered banks by human causes in St. Mary River project area.

Total # of Polygons = 6			Length of stream inventoried x %				Of the length of stream with human caused alterations, how much is due to:				
AENV Reach	ID No.	Polygon Number	Length of stream inventoried (km)	(miles)	Is stream bank altered by on-site human activities?	Percent of bank length with human caused alterations (percent as a decimal)	Stream length inventoried with human caused alterations (miles)	Grazing		Roads	
								(km)	(miles)	(km)	(miles)
SM-03	200410065	STM3	2.16	1.34	Yes	0.03	0.065	0.975	0.06	0.04	0.0003
	200410086	STM4	1.16	0.72	Yes	0.005	0.006	0.975	0.01	0.00	0.0000
					Reach Total:	0.071	0.044		0.069	0.043	0.0002
					Reach Average:	0.035	0.022		0.034	0.021	0.0001
SM-02	200410062	STM1	1.34	0.83	Yes	0.005	0.007	0.975	0.01	0.00	0.0000
	200410067	STM5	1.08	0.67	Yes	0.6	0.648	0.975	0.63	0.39	0.0000
					Reach Total:	0.655	0.406		0.638	0.396	0.0000
					Reach Average:	0.327	0.203		0.319	0.198	0.0000
SM-01	200410063	STM2	2.66	1.65	Yes	0.005	0.013	0.975	0.01	0.01	0.0000
	200410087	STM6	1.19	0.74	No	0	0.000	0	0.00	0.00	0.0000
					Reach Total:	0.013	0.008		0.013	0.008	0.0000
					Reach Average:	0.007	0.004		0.006	0.004	0.0000
Totals			9.59	5.95							
	Average		1.60	0.99			0.74	0.46	0.72	0.45	0.0003
	Percentage					7.7%	7.7%	97.5%	97.5%	97.5%	0.0001
											0.04%

Of exposed soil surface within polygon, how much is due to:													
Natural Processes													
Human-caused processes:													
polygon size x % polygon area with exposed soil surface													
area of exposed soil x % due to human-caused processes													
area of exposed soil x % due to human-caused disturbance													
Percent due to natural processes													
Percent due to human caused processes													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													
Percent due to natural processes													
Percent due to human caused disturbance													

Of natural processes, how much is due to:

AENV Reach	ID No.	Polygon Name	Polygon Size		Erosional	Area		Depositi nal	area exposed from natural processes x % due to erosion		Wildlife Use	area exposed from natural processes x % due to wildlife	
			acres	hectares		% as a decimal	acres		hectares	% as a decimal		acres	hectares
SM-03	200410065	STM3	146.54	59.3	0.3	6.155	2.491	0.7	14.36	5.81	0	0.000	0.000
	200410086	STM4	20.04	8.11	0.2	0.281	0.114	0.8	1.12	0.45	0.005	0.007	0.003
	Reach Total:		166.58	67.41		6.44	2.60		15.48	6.27		0.01	0.00
	Reach Average:		83.29	33.71		3.22	1.30		7.74	3.13		0.00	0.00
SM-02	200410062	STM1	4.95	2	0.5	0.067	0.027	0.5	0.07	0.03	0.005	0.001	0.000
	200410067	STM5	2.66	1.08	0.1	0.016	0.006	0.9	0.14	0.06	0	0.000	0.000
	Reach Total:		7.61	3.08		0.08	0.03		0.21	0.09		0.00	0.00
	Reach Average:		3.81	1.54		0.04	0.02		0.11	0.04		0.00	0.00
SM-01	200410063	STM2	26.24	10.62	0.2	0.079	0.032	0.7	0.28	0.11	0.1	0.039	0.016
	200410087	STM6	4.41	1.78	0.4	0.009	0.003	0.6	0.01	0.01	0	0.000	0.000
	Reach Total:		30.65	12.40		0.09	0.04		0.29	0.12		0.04	0.02
	Reach Average:		15.33	6.20		0.04	0.02		0.14	0.06		0.02	0.01
sum area all polys			204.84	82.89		6.61	2.67		15.98	6.47		0.05	0.02
sum area all polys / number polys			34.14	13.82		1.10	0.45		2.66	1.08		0.01	0.00
						29.2% total area cause / total area nat cause			70.6% total area cause / total area nat cause			0.2% total area cause / total area nat cause	

Of human-caused processes, how much is due to:

On Human Causes Produced from the											
AENV Reach	ID No.	Polygon Name	Polygon Size		area exposed from human-caused disturbance % due to grazing			area exposed from human-caused disturbance % due to other causes			Explain "Other"
			acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	
SM-03	200410065	STM3	146.54	59.3	0.03	0.26	0.11	0.975	8.57	3.47	Gravel removal from channel and road building. TRUCK TRAIL NEAR UPPER END
	200410086	STM4	20.04	8.11	0.975	0.59	0.24	0.005	0.00	0.00	
	Reach Total:		166.58	67.41		0.85	0.34		8.58	3.47	
	Reach Average:		83.29	33.71		0.42	0.17		4.29	1.74	
SM-02	200410062	STM1	4.95	2	0.975	0.01	0.01	0	0.00	0.00	
	200410067	STM5	2.66	1.08	0.975	0.10	0.04	0	0.00	0.00	
	Reach Total:		7.61	3.08		0.12	0.05		0.00	0.00	
	Reach Average:		3.81	1.54		0.06	0.02		0.00	0.00	
SM-01	200410063	STM2	26.24	10.62	0.975	0.38	0.16	0	0.00	0.00	
	200410087	STM6	4.41	1.78	0	0.00	0.00	0	0.00	0.00	
	Reach Total:		30.65	12.40		0.38	0.16		0.00	0.00	
	Reach Average:		15.33	6.20		0.19	0.08		0.00	0.00	
sum area all polys			204.84	82.89	1.35 0.55			8.58 3.47			
sum area all polys / number polys			34.14	13.82	0.23 0.09			1.43 0.58			
					13.6% 13.6%			86.5% 86.5%			
					total area cause / total area human cause						

AENV Reach	I.D. Number	Polygon Name	Area		No Land use	Breakdown of the polygon into % of the area in these land uses:									
			acres	hectares		Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging		
Total Polygons= 6					Sum of Polygons=		0	1	6	1	0	0	0	2	0
					Constancy=		0.0%	16.7%	100.0%	16.7%	0.0%	0.0%	0.0%	33.3%	0.0%
SM-03	200410065 STM3		146.54		59.3		90							10	
	200410086 STM4		20.04		8.11		97.5								
SM-02	200410062 STM1		4.95		2		97.5	0.5							
	200410067 STM5		2.66		1.08		97.5							3	
SM-01	200410063 STM2		26.24		10.62	50	50								
	200410087 STM6		4.41		1.78		97.5								
AENV Reach	I.D. Number	Polygon Name	Area		No Land use	Breakdown of the area ADJACENT to the polygon into % of these land uses:									
			acres	hectares		Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging		
Total Polygons= 6					Sum of Polygons=		0	1	5	0	3	0	0	5	0
					Constancy=		0.0%	16.7%	83.3%	0.0%	50.0%	0.0%	0.0%	83.3%	0.0%
SM-03	200410065 STM3		146.54		59.3		70			20				10	
	200410086 STM4		20.04		8.11		97.5			0.5				0.5	
SM-02	200410062 STM1		4.95		2		97.5							0.5	
	200410067 STM5		2.66		1.08		97.5								
SM-01	200410063 STM2		26.24		10.62	97.5								0.5	
	200410087 STM6		4.41		1.78		70			20				10	

AENV Reach	I.D. Number	Polygon Name	Mining	Railroads	Other	Other Comments
Total Polygons= 6			0	0	1	
			0.0%	0.0%	16.7%	
SM-03	200410065 STM3 200410086 STM4					0.5 truck trail near upper end
SM-02	200410062 STM1 200410067 STM5					
SM-01	200410063 STM2 200410087 STM6					
AENV Reach	I.D. Number	Polygon Name	Mining	Railroads	Other	Other Comments
Total Polygons= 6			1	0	0	
			16.7%	0.0%	0.0%	
SM-03	200410065 STM3 200410086 STM4					
SM-02	200410062 STM1 200410067 STM5					
SM-01	200410063 STM2 200410087 STM6		0.5			

AENV Reach	Polygon ID Number	Polygon Name	Date Inventoried	System Name	System Type	Dominant Channel Bottom
SM-03	200410065	STM3	7/5/04	St. Mary River	River	
	200410086	STM4	7/5/04	St. Mary River	River	Small cobble
SM-02	200410062	STM1	7/5/04	St. Mary River	River	Large cobble
	200410067	STM5	7/22/04	St. Mary River	River	
SM-01	200410063	STM2	7/5/04	St. Mary River	River	Small cobble
	200410087	STM6	7/23/04	St. Mary River	River	

AENV Reach	Polygon ID Number	Polygon Name	Unstable Banks	Deep Binding Rootmass	Downcutting	Headcuts	Polygon Bare Ground	Structurally Altered Banks	Pugging and Hummocking	Channel Incisement	Lateral Cutting
SM-03	200410065	STM3	26-45%	0-35%	0.00%	0	20.00%	3.00%	0.50%	A	40.00%
	200410086	STM4	6-25%	66-85%	0.00%	0	10.00%	0.50%	0.00%	A	20.00%
SM-02	200410062	STM1	0-5%	36-65%	0.00%	0	3.00%	0.50%	0.50%	A	0.00%
	200410067	STM5	6-25%	0-35%	0.00%	0	10.00%	60.00%	0.00%	A	0.00%
SM-01	200410063	STM2	6-25%	36-65%	0.00%	0	3.00%	0.50%	3.00%	A	30.00%
	200410087	STM6	over 45%	0-35%	0.00%	0	0.50%	0.00%	0.00%	A	3.00%

Overall Site Summary: 38.00% 24.50% 0.00% 0 15.90% 7.70% 0.80% A 20.10%

AENV Reach	Polygon ID Number	Polygon Name	Acres	Hectares	River Miles	River Kilometers	Average Acres/River Kilometer	Average Riparian Zone Width	Minimum Riparian Zone Width	Maximum Riparian Zone Width
SM-03	200410065	STM3	146.54	59.3	1.34	2.16	67.84	275	2	400
	200410086	STM4	20.04	8.11	0.72	1.16	17.28	70	1	200
SM-02	200410062	STM1	4.95	2	0.83	1.34	3.69	15	1	35
	200410067	STM5	2.66	1.08	0.67	1.08	2.46	10	2	20
SM-01	200410063	STM2	26.24	10.62	1.65	2.66	9.86	40	5	75
	200410087	STM6	4.41	1.78	0.74	1.19	3.71	15	10	25

ID No.	Polygon Number	Length of streambank/polygon inventoried		Are bank materials present (Yes/No/ NA)	>20 inches (med boulders)	10-20 inches (small boulders)	5-10 inches (Large cobbles)	2.5-5 inches (small cobbles)	0.6-2.5 inches (coarse gravel)	0.08-0.6 inches (fine gravel)	0.062-2mm (sand)	<0.062mm (Silt and clay)
		(km)	(miles)									
200410062	STM1	1.34	0.83	Yes	10	10	20	10	10	10	10	20
200410063	STM2	2.66	1.65	Yes	3	3	10	20	30	20	10	10
200410065	STM3	2.16	1.34	Yes	0	0.5	0.5	0.5	20	20	10	50
200410067	STM5	1.08	0.67	Yes	30	10	10	10	3	0.5	10	30
200410086	STM4	1.16	0.72	Yes	0	0.5	10	10	30	30	10	10
200410087	STM6	1.19	0.74	Yes	0.5	0.5	0.5	0.5	0.5	0.5	30	70
Sum		9.59	5.95		7.25	4.08	8.50	8.50	15.58	13.50	13.33	31.67
Average												

Number of Polygons= 6 River Health Evaluation Survey Forms ONLY

AENV Reach	ID No.	Polygon	Cottonwood Regeneration from Seed		Regeneration of Other Tree Species		Preferred Shrub Species Establishment and Regeneration		Standing Decadent and Dead Woody Material		Preferred Tree and Shrub Species Utilisation		Total Canopy Cover of Woody Species		Invasive Herbaceous Species Canopy Cover		Invasive Herbaceous Species Density Distribution	
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
WT-03	200410050 WAT4	200410049 WAT5	4	6	0	0	3	3	3	3	2	3	2	3	1	3	0	3
			6	6	0	0	3	3	3	3	2	3	2.5	3	2	3	0	3
			Average Score: 5.0		0.0		3.0		3.0		2.0		2.5		1.5		0.0	
WT-02	200410054 WAT3	200410089 WAT7	83%		0%		100%		100%		67%		83%		50%		0%	
			6	6	0	0	3	3	2	3	0	3	3	3	2	3	0	3
			Average Score: 6.0		0.0		3.0		2.5		1.0		2.5		2.0		0.0	
WT-01	200410041 WAT2	200410088 WAT6	100%		0%		100%		83%		33%		83%		67%		0%	
			6	6	0	0	3	3	3	3	1	3	3	3	2	3	1	3
			Average Score: 6.0		0.0		3.0		3.0		0.5		3.0		1.5		0.5	
			100%		0%		100%		100%		17%		100%		50%		17%	
			Total Score: 34	36	0	0	18	18	17	18	7	18	16	18	10	18	1	18
			Average Score 5.7		0.0		3.0		2.8		1.2		2.7		1.7		0.2	
			Average Percent 94.4%		0.0%		100.0%		94.4%		38.9%		88.9%		55.6%		5.6%	

Summary of health parameters by category:

Healthy: 5

Healthy but with problems: 1

Unhealthy: 0

Number of Polygons=

AENV Reach			Disturbance-increaser Undesirable Herbaceous Species				Presence of Native Graminoids		Exotic Undesirable Woody Species		Riverbank Root Mass Protection		Human-Caused Bare Ground		Dewatering of the River System		Control of Flood Peak and Timing by Upstream Dam(s)		Human Alterations to the Riverbanks	
			8		9		10		11		12		13		14		15			
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible		
WT-03	200410050	WAT4	1	3	2	3	3	3	2	6	6	6	9	9	9	9	9	9	9	
	200410049	WAT5	0	3	0	3	3	3	4	6	6	6	9	9	9	9	9	9		
	Average Score:		0.5		1.0		3.0		3.0		6.0		9.0		9.0		9.0			
	Average Percent:		17%		33%		100%		50%		100%		100%		100%		100%			
WT-02	200410054	WAT3	1	3	1	3	3	3	2	6	6	6	9	9	9	9	9	9		
	200410089	WAT7	2	3	0	3	3	3	2	6	6	6	9	9	9	9	9	9		
	Average Score:		1.5		0.5		3.0		2.0		6.0		9.0		9.0		9.0			
	Average Percent:		50%		17%		100%		33%		100%		0%		0%		100%			
WT-01	200410041	WAT2	0	3	1	3	3	3	4	6	6	6	9	9	9	9	9	9		
	200410088	WAT6	0	3	1	3	3	3	6	6	6	6	9	9	9	9	9	9		
	Average Score:		0.0		1.0		3.0		5.0		6.0		9.0		9.0		9.0			
	Average Percent:		0%		33%		100%		83%		100%		0%		0%		100%			
Total Score:			4	18	5	18	18	18	20	36	36	36	54	54	54	54	54	54	54	
Average Score			0.7		0.8		3.0		3.3		6.0		3.0		3.0		9.0			
Average Percent			22.2%		27.8%		100.0%		55.6%		100.0%		33.3%		33.3%		100.0%			

Summary of health parameters

by category:

Healthy:

Healthy but with problems:

Unhealthy:

6

2

0

0

2

0

4

6

0

0

1

2

3

6

0

0

0

1

5

Number of Polygons=

AENV Reach	ID No.	Polygon	Floodplain Accessibility		Vegetation		Soil/Hydrology Total		Soil/Hydrology Percent		Overall %		Overall Health Category
			16		Percent		Percent		Percent		Overall Total		
			Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	
WT-03	200410050	WAT4	6	6	21	33	64%	41	45	91%	62	78	79% Functional At Risk (Healthy, but with Problems)
	200410049	WAT5	6	6	22	33	67%	43	45	96%	65	78	83% Proper Functioning Condition (Healthy)
	Average Score:		6.0		21.5		65.2%		42.0		63.5		81.4%
	Average Percent:		100%										
WT-02	200410054	WAT3	6	6	21	33	64%	23	45	51%	44	78	56% Unhealthy (nonfunctional)
	200410089	WAT7	6	6	23	33	70%	23	45	51%	46	78	59% Unhealthy (nonfunctional)
	Average Score:		6.0		22.0		66.7%		23.0		45.0		57.7%
	Average Percent:		100%										
WT-01	200410041	WAT2	6	6	23	33	70%	25	45	56%	48	78	62% Functional At Risk (Healthy, but with Problems)
	200410088	WAT6	6	6	20	33	61%	27	45	60%	47	78	60% Functional At Risk (Healthy, but with Problems)
	Average Score:		6.0		21.5		65.2%		26.0		47.5		60.9%
	Average Percent:		100%										
Total Score:			36	36	130	198		182	270		312	468	
Average Score			6.0		21.7		66%	30.3		69%	52.0		67%
Average Percent			100.0%		65.7%		67.4%	67.4%		66.7%			

Summary of health parameters

by category:

Healthy: 6

Healthy but with problems: 0

Unhealthy: 0

Number of Sites per Health Category:

Overall %	Count	Health Category
16.7%	1	healthy (proper functioning condition)
50.0%	3	healthy but with problems (functional at risk)
33.3%	2	unhealthy (nonfunctional)
100.0%		

Trees					Shrubs			Grams						
AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	Canopy Cover (% as a decimal)	Polygon Size x % Canopy Cover of Trees		Canopy Cover (% as a decimal)	Polygon Size x % Canopy Cover of Shrubs		Canopy Cover (% as a decimal)	Polygon Size x % Canopy Cover of Graminoids		
						Area covered (acres)	Area covered (hect)		Area covered (acres)	Area covered (hect)		Area covered (acres)	Area covered (hect)	
WT-03	200410050 WAT4 200410049 WAT5 Reach Total: Reach Average:		11.93	4.83	0.5	5.97	2.42	0.03	0.36	0.14	0.8	9.54	3.86	
			25.85	10.46	0.4	10.34	4.18	0.6	15.51	6.28	0.9	23.27	9.41	
			37.78	15.29		16.31	6.60		15.87	6.42		32.81	13.28	
			18.89	7.65		8.15	3.30		7.93	3.21		16.40	6.64	
WT-02	200410054 WAT3 200410089 WAT7 Reach Total: Reach Average:		99.1	40.1	0.5	49.55	20.05	0.4	39.64	16.04	0.6	59.46	24.06	
			9.3	3.76	0.4	3.72	1.50	0.2	1.86	0.75	0.4	3.72	1.50	
			108.40	43.86		53.27	21.55		41.50	16.79		63.18	25.56	
			54.20	21.93		26.64	10.78		20.75	8.40		31.59	12.78	
WT-01	200410041 WAT2 200410088 WAT6 Reach Total: Reach Average:		27.08	10.96	0.4	10.83	4.38	0.3	8.12	3.29	0.7	18.96	7.67	
			90.67	36.69	0.7	63.47	25.68	0.5	45.34	18.35	0.7	63.47	25.68	
			117.75	47.65		74.30	30.07		53.46	21.63		82.43	33.36	
			58.88	23.83		37.15	15.03		26.73	10.82		41.21	16.68	
Overall total			263.93	106.8		143.88	58.22		110.83	44.85		178.41	72.20	
Overall avg			43.99	17.80		23.98	9.70		18.47	7.47		29.74	12.03	
Overall %						54.5%	54.5%		42.0%	42.0%		67.6%	67.6%	
			Overall total tree acres/overall total polygon acres						Overall total shrub acres/overall total polygon acres			Overall total graminoid acres/overall total polygon acres		

Forbs					Total Woodyies			Total all plant lifeforms				
Canopy Cover		Polygon Size x % Canopy Cover of Forbs			Canopy Cover	Polygon Size x % Canopy Cover of Total Woodyies		Canopy Cover	Polygon Size x % Canopy Cover of all plant lifeforms			
AENV Reach	Polygon Id. No.	Polygon Name	Size (acres)	Size (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)		
	200410050	WAT4	11.93	4.83	0.1	1.19	0.48	0.5	5.97	2.42		
	200410049	WAT5	25.85	10.46	0.1	2.59	1.05	0.7	18.10	7.32		
	Reach Total:		37.78	15.29		3.78	1.53		24.06	9.74		
	Reach Average:		18.89	7.65		1.89	0.76		12.03	4.87		
WT-02	200410054	WAT3	99.1	40.1	0.2	19.82	8.02	0.6	59.46	24.06		
	200410089	WAT7	9.3	3.76	0.1	0.93	0.38	0.4	3.72	1.50		
	Reach Total:		108.40	43.86		20.75	8.40		63.18	25.56		
	Reach Average:		54.20	21.93		10.38	4.20		31.59	12.78		
WT-01	200410041	WAT2	27.08	10.96	0.1	2.71	1.10	0.6	16.25	6.58		
	200410088	WAT6	90.67	36.69	0.2	18.13	7.34	0.8	72.54	29.35		
	Reach Total:		117.75	47.65		20.84	8.43		88.78	35.93		
	Reach Average:		58.88	23.83		10.42	4.22		44.39	17.96		
Overall total						45.37	18.36		176.02	71.23	223.14	90.29
Overall avg						7.56	3.06		29.34	11.87	37.19	15.05
Overall %						17.2%	17.2%		66.7%	66.7%	84.5%	84.5%
					Overall total forb acres/overall total polygon acres			Overall total woodyies acres/overall total polygon acres			Overall total all plant lifeforms acres/overall total polygon acres	

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²		Constancy ³
		Area by Species		Avg	Range	
		acres	hectares area sp acres* 0.41			
TREES						
narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	142.76	57.82	54.10%	##### 70.00%	100.00%
balsam poplar (<i>Populus balsamifera</i>)	native	25.03	10.14	9.80%	0.00% 40.00%	83.00%
Total area covered by TREE species =		167.79	67.95			
SHRUBS						
silverberry (<i>Elaeagnus commutata</i>)	native	39.79	16.11	15.10%	3.00% 30.00%	100.00%
water birch (<i>Betula occidentalis</i>)	native	17.33	7.02	7.10%	0.00% 10.00%	67.00%
buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	16.43	6.65	6.20%	0.50% 10.00%	100.00%
Saskatoon (<i>Amelanchier alnifolia</i>)	native	15.54	6.29	5.90%	0.50% 10.00%	100.00%
choke cherry (<i>Prunus virginiana</i>)	native	13.31	5.39	5.00%	0.50% 10.00%	100.00%
shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	4.26	1.73	1.90%	0.00% 3.00%	67.00%
sandbar willow (<i>Salix exigua</i>)	native	4.2	1.70	1.70%	0.00% 3.00%	83.00%
beaked willow (<i>Salix bebbiana</i>)	native	3.34	1.35	1.60%	0.00% 3.00%	50.00%
common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	3.1	1.26	2.50%	0.00% 3.00%	33.00%
creeping juniper (<i>Juniperus horizontalis</i>)	native	3.02	1.22	2.80%	0.00% 3.00%	33.00%
common wild rose (<i>Rosa woodsii</i>)	native	1.41	0.57	0.90%	0.00% 3.00%	50.00%
yellow willow (<i>Salix lutea</i>)	native	1.14	0.46	0.50%	0.00% 0.50%	67.00%
western clematis (<i>Clematis ligusticifolia</i>)	native	1.08	0.44	0.50%	0.00% 0.50%	50.00%
prickly rose (<i>Rosa acicularis</i>)	native	0.86	0.35	0.80%	0.00% 3.00%	50.00%
thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.64	0.26	0.50%	0.00% 0.50%	50.00%
red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.59	0.24	0.50%	0.00% 0.50%	33.00%
skunkbush (<i>Rhus trilobata</i>)	native	0.54	0.22	0.50%	0.00% 0.50%	33.00%
northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.54	0.22	0.50%	0.00% 0.50%	33.00%
ground juniper (<i>Juniperus communis</i>)	native	0.5	0.20	0.50%	0.00% 0.50%	33.00%
round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.13	0.05	0.50%	0.00% 0.50%	17.00%
Total area covered by SHRUBS species =		127.75	51.74			
GRASSES AND GRASS-LIKES						
smooth brome (<i>Bromus inermis</i>)	disturbance	72.37	29.31	27.40%	3.00% 50.00%	100.00%
timothy (<i>Phleum pratense</i>)	disturbance	32.9	13.32	12.50%	3.00% 40.00%	100.00%
Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	26.49	10.73	10.00%	0.50% 20.00%	100.00%
Canada bluegrass (<i>Poa compressa</i>)	disturbance	14.21	5.76	5.40%	0.50% 10.00%	100.00%
redtop (<i>Agrostis stolonifera</i>)	introduced	13.68	5.54	5.20%	0.50% 10.00%	100.00%
western wheat grass (<i>Agropyron smithii</i>)	native	8.64	3.50	3.30%	0.50% 10.00%	100.00%
quack grass (<i>Agropyron repens</i>)	disturbance	5.96	2.41	4.40%	0.00% 10.00%	50.00%
orchard grass (<i>Dactylis glomerata</i>)	introduced	4.66	1.89	2.00%	0.00% 30.00%	67.00%
needle-and-thread (<i>Stipa comata</i>)	native	3.43	1.39	1.80%	0.00% 3.00%	33.00%
crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	3.08	1.25	2.60%	0.00% 3.00%	50.00%
Japanese chess (<i>Bromus japonicus</i>)	disturbance	1.49	0.60	1.20%	0.00% 10.00%	50.00%
foxtail barley (<i>Hordeum jubatum</i>)	disturbance	1.36	0.55	0.60%	0.00% 3.00%	67.00%
tufted hair grass (<i>Deschampsia cespitosa</i>)	native	1.32	0.53	0.50%	0.50% 0.50%	100.00%
creeping spike-rush (<i>Eleocharis palustris</i>)	native	1.27	0.51	0.50%	0.00% 0.50%	83.00%
green needle grass (<i>Stipa viridula</i>)	native	1.26	0.51	0.50%	0.00% 0.50%	83.00%
reed canary grass (<i>Phalaris arundinacea</i>)	native	1.21	0.49	0.50%	0.00% 0.50%	67.00%
woolly sedge (<i>Carex lanuginosa</i>)	native	1.08	0.44	0.50%	0.00% 0.50%	50.00%
Canada wild rye (<i>Elymus canadensis</i>)	native	1.08	0.44	0.50%	0.00% 0.50%	50.00%
common great bulrush (<i>Scirpus validus</i>)	native	1.08	0.44	0.50%	0.00% 0.50%	50.00%
small bottle sedge (<i>Carex utriculata</i>)	native	1.08	0.44	0.50%	0.00% 0.50%	50.00%
downy chess (<i>Bromus tectorum</i>)	invasive	1.06	0.43	0.50%	0.00% 0.50%	67.00%
wire rush (<i>Juncus balticus</i>)	native	1.01	0.41	0.50%	0.00% 0.50%	50.00%
slough grass (<i>Beckmannia syzigachne</i>)	native	0.95	0.38	0.50%	0.00% 0.50%	33.00%
bluejoint (<i>Calamagrostis canadensis</i>)	native	0.95	0.38	0.50%	0.00% 0.50%	33.00%
rush (<i>Juncus</i> spp.)	native	0.95	0.38	0.50%	0.00% 0.50%	33.00%
Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.64	0.26	0.50%	0.00% 0.50%	50.00%
June grass (<i>Koeleria macrantha</i>)	native	0.62	0.25	0.50%	0.00% 0.50%	33.00%
sand grass (<i>Calamovilfa longifolia</i>)	native	0.5	0.20	0.50%	0.00% 0.50%	33.00%
northern wheat grass (<i>Agropyron dasystachyum</i>)	native	0.5	0.20	0.50%	0.00% 0.50%	17.00%
awned sedge (<i>Carex atherodes</i>)	native	0.45	0.18	0.50%	0.00% 0.50%	17.00%
common tall manna grass (<i>Glyceria grandis</i>)	native	0.45	0.18	0.50%	0.00% 0.50%	17.00%
small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.45	0.18	0.50%	0.00% 0.50%	17.00%
blue grama (<i>Bouteloua gracilis</i>)	native	0.36	0.15	3.00%	0.00% 3.00%	17.00%
red fescue (<i>Festuca rubra</i>)	native	0.36	0.15	3.00%	0.00% 3.00%	17.00%
western porcupine grass (<i>Stipa curtisetia</i>)	native	0.36	0.15	3.00%	0.00% 3.00%	17.00%
slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.18	0.07	0.50%	0.00% 0.50%	33.00%
water sedge (<i>Carex aquatilis</i>)	native	0.13	0.05	0.50%	0.00% 0.50%	17.00%
fowl manna grass (<i>Glyceria striata</i>)	native	0.13	0.05	0.50%	0.00% 0.50%	17.00%
knotted rush (<i>Juncus nodosus</i>)	native	0.13	0.05	0.50%	0.00% 0.50%	17.00%
wheat grass (<i>Agropyron</i> spp.)	unknown	0.05	0.02	0.50%	0.00% 0.50%	17.00%
Total area covered by GRASS AND GRASS-LIKE species =		207.85	84.19			
FORBS						
shining arnica (<i>Arnica fulgens</i>)	native	9.91	4.01	10.00%	0.00% 10.00%	17.00%
silky perennial lupine (<i>Lupinus sericeus</i>)	native	4.4	1.78	1.70%	0.00% 3.00%	83.00%
Canada thistle (<i>Cirsium arvense</i>)	invasive	3.59	1.45	1.40%	0.50% 3.00%	100.00%
wild bergamot (<i>Monarda fistulosa</i>)	native	3.59	1.45	1.40%	0.50% 3.00%	100.00%
bluebur (<i>Lappula squarrosa</i>)	disturbance	3.51	1.42	2.40%	0.00% 3.00%	67.00%
flixweed (<i>Descurainia sophia</i>)	disturbance	3.21	1.30	2.20%	0.00% 3.00%	67.00%
wild licorice (<i>Glycyrrhiza lepidota</i>)	native	2.4	0.97	1.00%	0.00% 3.00%	83.00%
common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	1.37	0.55	2.90%	0.00% 10.00%	50.00%
white sweet-clover (<i>Melilotus alba</i>)	disturbance	1.36	0.55	0.60%	0.00% 3.00%	67.00%

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²			Constancy ³
		Area by Species		Avg	Range		
		acres	hectares				
		area sp acres* 0.41					
FORBS continued							
common burdock (Arctium minus)	disturbance	1.32	0.53	0.50%	0.50%	0.50%	100.00%
hound's-tongue (Cynoglossum officinale)	invasive	1.32	0.53	0.50%	0.50%	0.50%	100.00%
common dandelion (Taraxacum officinale)	disturbance	1.32	0.53	0.50%	0.50%	0.50%	100.00%
tall buttercup (Ranunculus acris)	invasive	1.32	0.53	0.50%	0.00%	0.50%	83.00%
northern bedstraw (Galium boreale)	native	1.21	0.49	0.50%	0.00%	0.50%	67.00%
wild blue flax (Linum lewisii)	native	1.21	0.49	0.50%	0.00%	0.50%	67.00%
gaillardia (Gaillardia aristata)	native	1.19	0.48	0.50%	0.00%	0.50%	83.00%
yellow sweet-clover (Melilotus officinalis)	disturbance	1.19	0.48	0.50%	0.00%	0.50%	83.00%
wild mint (Mentha arvensis)	native	1.19	0.48	0.50%	0.00%	0.50%	83.00%
perennial sow-thistle (Sonchus arvensis)	invasive	1.19	0.48	0.50%	0.00%	0.50%	83.00%
common yarrow (Achillea millefolium)	native	1.18	0.48	0.50%	0.00%	0.50%	83.00%
prairie sagewort (Artemisia ludoviciana)	native	1.18	0.48	0.50%	0.00%	0.50%	83.00%
harebell (Campanula rotundifolia)	native	1.18	0.48	0.50%	0.00%	0.50%	83.00%
stinkweed (Thlaspi arvense)	disturbance	1.18	0.48	0.50%	0.00%	0.50%	83.00%
ox-eye daisy (Chrysanthemum leucanthemum)	invasive	1.14	0.46	0.50%	0.00%	0.50%	67.00%
common goat's-beard (Tragopogon dubius)	introduced	1.14	0.46	0.50%	0.00%	0.50%	67.00%
Indian hemp (Apocynum cannabinum)	poisonous	1.13	0.46	0.50%	0.00%	0.50%	67.00%
common scouring-rush (Equisetum hyemale)	native	1.13	0.46	0.50%	0.00%	0.50%	67.00%
golden aster (Heterotheca villosa)	native	1.13	0.46	0.50%	0.00%	0.50%	67.00%
yellow evening-primrose (Oenothera biennis)	native	1.13	0.46	0.50%	0.00%	0.50%	67.00%
curled dock (Rumex crispus)	introduced	1.12	0.45	0.50%	0.00%	0.50%	67.00%
pasture sagewort (Artemisia frigida)	native	1.06	0.43	0.50%	0.00%	0.50%	67.00%
Forb (Forb)	unknown	1.01	0.41	0.50%	0.00%	0.50%	50.00%
nodding onion (Allium cernuum)	native	1	0.41	0.50%	0.00%	0.50%	50.00%
seaside buttercup (Ranunculus cymbalaria)	native	0.95	0.38	0.50%	0.00%	0.50%	33.00%
goldenrod (Solidago spp.)	native	0.95	0.38	0.50%	0.00%	0.50%	33.00%
Canada goldenrod (Solidago canadensis)	native	0.81	0.33	0.50%	0.00%	0.50%	67.00%
smooth aster (Aster laevis)	native	0.76	0.31	0.50%	0.00%	0.50%	50.00%
golden bean (Thermopsis rhombifolia)	native	0.69	0.28	0.50%	0.00%	0.50%	67.00%
silverweed (Potentilla anserina)	disturbance	0.68	0.28	0.50%	0.00%	0.50%	50.00%
common plantain (Plantago major)	disturbance	0.65	0.26	0.50%	0.00%	0.50%	50.00%
wild strawberry (Fragaria virginiana)	disturbance	0.64	0.26	0.50%	0.00%	0.50%	50.00%
showy locoweed (Oxytropis splendens)	poisonous	0.64	0.26	0.50%	0.00%	0.50%	50.00%
common horsetail (Equisetum arvense)	poisonous	0.59	0.24	0.50%	0.00%	0.50%	33.00%
common cattail (Typha latifolia)	native	0.59	0.24	0.50%	0.00%	0.50%	33.00%
ball mustard (Neslia paniculata)	disturbance	0.56	0.23	0.50%	0.00%	0.50%	33.00%
erigeron (Erigeron spp.)	native	0.54	0.22	0.50%	0.00%	0.50%	33.00%
locoweed (Oxytropis spp.)	unknown	0.54	0.22	0.50%	0.00%	0.50%	33.00%
plains wormwood (Artemisia campestris)	native	0.5	0.20	0.50%	0.00%	0.50%	33.00%
prairie coneflower (Ratibida columnifera)	native	0.5	0.20	0.50%	0.00%	0.50%	33.00%
star-flowered Solomon's-seal (Smilacina stellata)	native	0.5	0.20	0.50%	0.00%	0.50%	33.00%
Canada anemone (Anemone canadensis)	native	0.5	0.20	0.50%	0.00%	0.50%	17.00%
smooth fleabane (Erigeron glabellus)	native	0.5	0.20	0.50%	0.00%	0.50%	17.00%
rough cinquefoil (Potentilla norvegica)	disturbance	0.5	0.20	0.50%	0.00%	0.50%	17.00%
marsh hedge-nettle (Stachys palustris)	native	0.5	0.20	0.50%	0.00%	0.50%	17.00%
red clover (Trifolium pratense)	disturbance	0.5	0.20	0.50%	0.00%	0.50%	17.00%
water-hemlock (Cicuta maculata)	poisonous	0.45	0.18	0.50%	0.00%	0.50%	17.00%
bull thistle (Cirsium vulgare)	introduced	0.45	0.18	0.50%	0.00%	0.50%	17.00%
common nettle (Urtica dioica)	native	0.45	0.18	0.50%	0.00%	0.50%	17.00%
black medick (Medicago lupulina)	introduced	0.32	0.13	0.50%	0.00%	0.50%	50.00%
wavy-leaved thistle (Cirsium undulatum)	native	0.31	0.13	0.50%	0.00%	0.50%	50.00%
wild vetch (Vicia americana)	native	0.26	0.11	0.50%	0.00%	0.50%	33.00%
alsike clover (Trifolium hybridum)	disturbance	0.2	0.08	0.50%	0.00%	0.50%	33.00%
wild chives (Allium schoenoprasum)	native	0.19	0.08	0.50%	0.00%	0.50%	33.00%
woolly gromwell (Lithospermum ruderales)	native	0.18	0.07	0.50%	0.00%	0.50%	33.00%
northern willowherb (Epilobium ciliatum)	native	0.14	0.06	0.50%	0.00%	0.50%	17.00%
common tall sunflower (Helianthus nuttallii)	native	0.14	0.06	0.50%	0.00%	0.50%	17.00%
western dock (Rumex occidentalis)	native	0.14	0.06	0.50%	0.00%	0.50%	17.00%
prairie onion (Allium textile)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
lance-leaved paintbrush (Castilleja occidentalis)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
sticky purple geranium (Geranium viscosissimum)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
alpine hedysarum (Hedysarum alpinum)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
early yellow locoweed (Oxytropis sericea)	poisonous	0.13	0.05	0.50%	0.00%	0.50%	17.00%
prairie groundsel (Senecio canus)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
white camas (Zigadenus elegans)	poisonous	0.13	0.05	0.50%	0.00%	0.50%	17.00%
heart-leaved Alexanders (Zizia aptera)	native	0.13	0.05	0.50%	0.00%	0.50%	17.00%
alfalfa (Medicago sativa)	introduced	0.11	0.04	0.50%	0.00%	0.50%	33.00%

Life Form	Plant Status ¹	area acres x 0.41		Percent Canopy Cover ²			Constancy ³
		Area by Species		Avg	Range		
		acres	hectares				
			area sp acres*				
			0.41				
FORBS continued							
pineappleweed (Matricaria matricarioides)	introduced	0.06	0.02	0.50%	0.00%	0.50%	17.00%
leafy musineon (Musineon divaricatum)	native	0.06	0.02	0.50%	0.00%	0.50%	17.00%
white cockle (Silene pratensis)	invasive	0.06	0.02	0.50%	0.00%	0.50%	17.00%
common mullein (Verbascum thapsus)	introduced	0.06	0.02	0.50%	0.00%	0.50%	17.00%
broad-leaved fireweed (Epilobium latifolium)	native	0.05	0.02	0.50%	0.00%	0.50%	17.00%
gumweed (Grindelia squarrosa)	native	0.05	0.02	0.50%	0.00%	0.50%	17.00%
sand-lily (Mentzelia decapetala)	native	0.05	0.02	0.50%	0.00%	0.50%	17.00%
Total area covered by FORB species =		79.87	32.35				
Summary							
Total # of species = 145				Total # of native plants = 94			
Total # of TREE species = 2				Total # of restricted weeds = 0			
Total # of SHRUB species = 20				Total # of invasive weeds = 7			
Total # of GRAM species = 40				Total # of disturbance plants = 22			
Total # of FORB species = 83				Total # of plants with poisononus properties = 6			

¹ Plant status is designated by Cows and Fish in association with Alberta Public Lands and the Alberta Weed Control Act. Those species with a plant status highlighted in bold (e.g. noxious) are included in the health parameter score for "Invasive Plant Species". Unknown = plant not identified to species, status unknown.

² Based on visual estimates of the amount of ground the canopy of the plant covers. The percent cover values presented are the mid-values for the following ranges: 0.5=less than 1%; 3.0=1%-5%; 10.0=5%-15%; 20.0=15%-25%; 30.0=25%-35%; 40.0=35%-45%; 50.0=45%-55%; 60.0=55%-65%; 70.0=65%-75%; 80.0=75%-85%; 90.0=85%-95%; 97.5=greater than 95%; — = not observed.

³ Constancy is the number of times the species occurs divided by the total number of polygons.

Riparian Plant Information (WAT2)

Category	Species Common Name (Scientific Name)	Plant Status ¹	% Canopy Cover ² WAT2
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	20.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	30.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	10.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	Canada bluegrass (<i>Poa compressa</i>)	disturbance	3.0
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	10.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	50.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	10.0
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	alsike clover (<i>Trifolium hybridum</i>)	disturbance	0.5
	black medick (<i>Medicago lupulina</i>)	disturbance	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common tall sunflower (<i>Helianthus nuttallii</i>)	native	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	northern willowherb (<i>Epilobium ciliatum</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.5
	western dock (<i>Rumex occidentalis</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild vetch (<i>Vicia americana</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (WAT3)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT3
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	3.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	50.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	3.0
	choke cherry (<i>Prunus virginiana</i>)	native	10.0
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	3.0
	common wild rose (<i>Rosa woodsii</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	3.0
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	saskatoon (<i>Amelanchier alnifolia</i>)	native	3.0
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	water birch (<i>Betula occidentalis</i>)	native	3.0
	western clematis (<i>Clematis ligusticifolia</i>)	native	0.5
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	bluejoint (<i>Calamagrostis canadensis</i>)	native	0.5
	Canada bluegrass (<i>Poa compressa</i>)	disturbance	10.0
	Canada wild rye (<i>Elymus canadensis</i>)	native	0.5
	common great bulrush (<i>Scirpus validus</i>)	native	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	3.0
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	needle-and-thread (<i>Stipa comata</i>)	native	3.0
	northern wheat grass (<i>Agropyron dasystachyum</i>)	native	0.5
	orchard grass (<i>Dactylis glomerata</i>)	native	0.5
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	native	10.0
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	rush (<i>Juncus spp.</i>)	unknown	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	20.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	ball mustard (<i>Neslia paniculata</i>)	disturbance	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	3.0
	Canada anemone (<i>Anemone canadensis</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	3.0
	Forb (<i>Forb</i>)	unknown	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	goldenrod (<i>Solidago spp.</i>)	unknown	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	native	0.5

Riparian Plant Information (WAT3)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT3
Forbs (broad leaf plants)	locoweed (<i>Oxytropis spp.</i>)	unknown	0.5
	marsh hedge-nettle (<i>Stachys palustris</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	<i>invasive</i>	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	<i>invasive</i>	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	red clover (<i>Trifolium pratense</i>)	<i>disturbance</i>	0.5
	rough cinquefoil (<i>Potentilla norvegica</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	shining arnica (<i>Arnica fulgens</i>)	native	10.0
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	3.0
	silverweed (<i>Potentilla anserina</i>)	<i>disturbance</i>	0.5
	smooth aster (<i>Aster laevis</i>)	native	0.5
	smooth fleabane (<i>Erigeron glabellus</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	<i>disturbance</i>	0.5
	tall buttercup (<i>Ranunculus acris</i>)	<i>invasive</i>	0.5
	white sweet-clover (<i>Melilotus alba</i>)	<i>disturbance</i>	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	<i>disturbance</i>	0.5

Riparian Plant Information (WAT 4)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT 4
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	30.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	20.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	0.5
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	3.0
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	3.0
	yellow willow (<i>Salix lutea</i>)	native	0.5
Grasses (and Grass-like species)	blue grama (<i>Bouteloua gracilis</i>)	native	3.0
	Canada bluegrass (<i>Poa compressa</i>)	<i>disturbance</i>	3.0
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	crested wheat grass (<i>Agropyron pectiniforme</i>)	<i>disturbance</i>	0.5
	downy chess (<i>Bromus tectorum</i>)	<i>invasive</i>	0.5
	Japanese chess (<i>Bromus japonicus</i>)	<i>disturbance</i>	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	20.0
	orchard grass (<i>Dactylis glomerata</i>)	<i>introduced</i>	30.0
	red fescue (<i>Festuca rubra</i>)	native	3.0
	redtop (<i>Agrostis stolonifera</i>)	<i>introduced</i>	0.5
	smooth brome (<i>Bromus inermis</i>)	<i>disturbance</i>	10.0
	timothy (<i>Phleum pratense</i>)	<i>disturbance</i>	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western porcupine grass (<i>Stipa curtisetata</i>)	native	3.0
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wire rush (<i>Juncus balticus</i>)	native	0.5
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	<i>introduced</i>	0.5
	alsike clover (<i>Trifolium hybridum</i>)	<i>disturbance</i>	0.5
	ball mustard (<i>Neslia paniculata</i>)	<i>disturbance</i>	0.5
	black medick (<i>Medicago lupulina</i>)	<i>disturbance</i>	0.5
	bluebur (<i>Lappula squarrosa</i>)	<i>disturbance</i>	3.0
	Canada thistle (<i>Cirsium arvense</i>)	<i>invasive</i>	0.5
	common burdock (<i>Arctium minus</i>)	<i>disturbance</i>	0.5

Riparian Plant Information (WAT 4)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT 4
Forbs (broad leaf plants)	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common mullein (<i>Verbascum thapsus</i>)	introduced	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	10.0
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	Forb (<i>Forb</i>)	unknown	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	leafy musineon (<i>Musineon divaricatum</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	pineappleweed (<i>Matricaria matricarioides</i>)	introduced	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	tall buttercup (<i>Ranunculus acris</i>)	invasive	0.5
	white cockle (<i>Silene pratensis</i>)	invasive	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild chives (<i>Allium schoenoprasum</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (WAT5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT5
Trees	balsam poplar (<i>Populus balsamifera</i>)	native	40.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	60.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	native	0.5
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	common bearberry (<i>Arctostaphylos uva-ursi</i>)	native	0.5
	common wild rose (<i>Rosa woodsii</i>)	native	3.0
	round-leaved hawthorn (<i>Crataegus rotundifolia</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	10.0
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	native	3.0
	silverberry (<i>Elaeagnus commutata</i>)	native	30.0
	water birch (<i>Betula occidentalis</i>)	native	10.0
Grasses (and Grass-like species)	Canada bluegrass (<i>Poa compressa</i>)	disturbance	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	native	0.5
	fowl manna grass (<i>Glyceria striata</i>)	native	0.5
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	June grass (<i>Koeleria macrantha</i>)	native	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	10.0
	knotted rush (<i>Juncus nodosus</i>)	native	0.5
	orchard grass (<i>Dactylis glomerata</i>)	introduced	0.5
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	reed canary grass (<i>Phalaris arundinacea</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	40.0
	timothy (<i>Phleum pratense</i>)	disturbance	40.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	water sedge (<i>Carex aquatilis</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
Forbs (broad leaf plants)	alpine hedysarum (<i>Hedysarum alpinum</i>)	native	0.5
	black medick (<i>Medicago lupulina</i>)	disturbance	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5

Riparian Plant Information (WAT5)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT5
Forbs (broad leaf plants)	Canada thistle (<i>Cirsium arvense</i>)	<i>invasive</i>	0.5
	common burdock (<i>Arctium minus</i>)	<i>disturbance</i>	0.5
	common dandelion (<i>Taraxacum officinale</i>)	<i>disturbance</i>	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	<i>introduced</i>	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	<i>introduced</i>	0.5
	common yarrow (<i>Achillea millefolium</i>)	<i>native</i>	0.5
	curled dock (<i>Rumex crispus</i>)	<i>introduced</i>	0.5
	early yellow locoweed (<i>Oxytropis sericea</i>)	<i>poisonous</i>	0.5
	harebell (<i>Campanula rotundifolia</i>)	<i>native</i>	0.5
	heart-leaved Alexanders (<i>Zizia aptera</i>)	<i>native</i>	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	<i>invasive</i>	0.5
	lance-leaved paintbrush (<i>Castilleja occidentalis</i>)	<i>native</i>	0.5
	northern bedstraw (<i>Galium boreale</i>)	<i>native</i>	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	<i>invasive</i>	0.5
	prairie groundsel (<i>Senecio canus</i>)	<i>native</i>	0.5
	prairie onion (<i>Allium textile</i>)	<i>native</i>	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	<i>native</i>	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	<i>poisonous</i>	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	<i>native</i>	3.0
	smooth aster (<i>Aster laevis</i>)	<i>native</i>	0.5
	sticky purple geranium (<i>Geranium viscosissimum</i>)	<i>native</i>	0.5
	stinkweed (<i>Thlaspi arvense</i>)	<i>disturbance</i>	0.5
	tall buttercup (<i>Ranunculus acris</i>)	<i>invasive</i>	0.5
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	<i>native</i>	0.5
	white camas (<i>Zigadenus elegans</i>)	<i>poisonous</i>	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	<i>native</i>	0.5
	wild blue flax (<i>Linum lewisii</i>)	<i>native</i>	0.5
	wild chives (<i>Allium schoenoprasum</i>)	<i>native</i>	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	<i>disturbance</i>	0.5
	wild vetch (<i>Vicia americana</i>)	<i>native</i>	0.5
	woolly gromwell (<i>Lithospermum ruderales</i>)	<i>native</i>	0.5

Riparian Plant Information (WAT6)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT6
Trees	balsam poplar (<i>Populus balsamifera</i>)	<i>native</i>	3.0
	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	<i>native</i>	70.0
Shrubs	beaked willow (<i>Salix bebbiana</i>)	<i>native</i>	3.0
	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	<i>native</i>	10.0
	choke cherry (<i>Prunus virginiana</i>)	<i>native</i>	0.5
	ground juniper (<i>Juniperus communis</i>)	<i>native</i>	0.5
	prickly rose (<i>Rosa acicularis</i>)	<i>native</i>	0.5
	red-osier dogwood (<i>Cornus stolonifera</i>)	<i>native</i>	0.5
	sandbar willow (<i>Salix exigua</i>)	<i>native</i>	3.0
	saskatoon (<i>Amelanchier alnifolia</i>)	<i>native</i>	10.0
	shrubby cinquefoil (<i>Potentilla fruticosa</i>)	<i>native</i>	0.5
	silverberry (<i>Elaeagnus commutata</i>)	<i>native</i>	20.0
	thorny buffaloberry (<i>Shepherdia argentea</i>)	<i>native</i>	0.5
	water birch (<i>Betula occidentalis</i>)	<i>native</i>	10.0
	western clematis (<i>Clematis ligusticifolia</i>)	<i>native</i>	0.5
	yellow willow (<i>Salix lutea</i>)	<i>native</i>	0.5
Grasses (and Grass-like species)	awned sedge (<i>Carex atherodes</i>)	<i>native</i>	0.5
	bluejoint (<i>Calamagrostis canadensis</i>)	<i>native</i>	0.5
	Canada bluegrass (<i>Poa compressa</i>)	<i>disturbance</i>	3.0
	Canada wild rye (<i>Elymus canadensis</i>)	<i>native</i>	0.5
	common great bulrush (<i>Scirpus validus</i>)	<i>native</i>	0.5
	common tall manna grass (<i>Glyceria grandis</i>)	<i>native</i>	0.5
	creeping spike-rush (<i>Eleocharis palustris</i>)	<i>native</i>	0.5
	downy chess (<i>Bromus tectorum</i>)	<i>invasive</i>	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	<i>disturbance</i>	0.5
	green needle grass (<i>Stipa viridula</i>)	<i>native</i>	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	<i>native</i>	0.5
	Kentucky bluegrass (<i>Poa pratensis</i>)	<i>disturbance</i>	20.0
	needle-and-thread (<i>Stipa comata</i>)	<i>native</i>	0.5
	orchard grass (<i>Dactylis glomerata</i>)	<i>native</i>	0.5
	redtop (<i>Agrostis stolonifera</i>)	<i>native</i>	3.0
	reed canary grass (<i>Phalaris arundinacea</i>)	<i>native</i>	0.5
	rush (<i>Juncus spp.</i>)	<i>unknown</i>	0.5

Riparian Plant Information (WAT6)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT6
Grasses (and Grass-like species)	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	slough grass (<i>Beckmannia syzigachne</i>)	native	0.5
	small bottle sedge (<i>Carex utriculata</i>)	native	0.5
	small-fruited bulrush (<i>Scirpus microcarpus</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	30.0
	timothy (<i>Phleum pratense</i>)	disturbance	20.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	3.0
	wire rush (<i>Juncus balticus</i>)	native	0.5
	woolly sedge (<i>Carex lanuginosa</i>)	native	0.5
Forbs (broad leaf plants)	bull thistle (<i>Cirsium vulgare</i>)	introduced	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	3.0
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common cattail (<i>Typha latifolia</i>)	native	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common goat's-beard (<i>Tragopogon dubius</i>)	introduced	0.5
	common horsetail (<i>Equisetum arvense</i>)	poisonous	0.5
	common nettle (<i>Urtica dioica</i>)	native	0.5
	common plantain (<i>Plantago major</i>)	disturbance	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	Forb (<i>Forb</i>)	unknown	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	goldenrod (<i>Solidago spp.</i>)	unknown	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	native	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	northern bedstraw (<i>Galium boreale</i>)	native	0.5
	ox-eye daisy (<i>Chrysanthemum leucanthemum</i>)	invasive	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	seaside buttercup (<i>Ranunculus cymbalaria</i>)	native	0.5
	showy locoweed (<i>Oxytropis splendens</i>)	poisonous	0.5
	silky perennial lupine (<i>Lupinus sericeus</i>)	native	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	water-hemlock (<i>Cicuta maculata</i>)	poisonous	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	0.5
	wild bergamot (<i>Monarda fistulosa</i>)	native	3.0
	wild blue flax (<i>Linum lewisii</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	0.5
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	wild strawberry (<i>Fragaria virginiana</i>)	disturbance	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

Riparian Plant Information (WAT 7)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT 7
Trees	narrow-leaf cottonwood (<i>Populus angustifolia</i>)	native	40.0
Shrubs	buckbrush/snowberry (<i>Symphoricarpos occidentalis</i>)	native	10.0
	choke cherry (<i>Prunus virginiana</i>)	native	0.5
	creeping juniper (<i>Juniperus horizontalis</i>)	native	0.5
	ground juniper (<i>Juniperus communis</i>)	native	0.5
	northern gooseberry (<i>Ribes oxycanthoides</i>)	native	0.5
	prickly rose (<i>Rosa acicularis</i>)	native	0.5
	sandbar willow (<i>Salix exigua</i>)	native	0.5
	Saskatoon (<i>Amelanchier alnifolia</i>)	native	0.5
	silverberry (<i>Elaeagnus commutata</i>)	native	10.0
	skunkbush (<i>Rhus trilobata</i>)	native	0.5
	thorny buffalobery (<i>Shepherdia argentea</i>)	native	0.5

Riparian Plant Information (WAT 7)

Category	Species Common Name (Scientific Name)	Plant	% Canopy Cover ²
		Status ¹	WAT 7
Grasses (and Grass-like species)	Canada bluegrass (<i>Poa compressa</i>)	disturbance	3.0
	crested wheat grass (<i>Agropyron pectiniforme</i>)	disturbance	0.5
	downy chess (<i>Bromus tectorum</i>)	invasive	0.5
	foxtail barley (<i>Hordeum jubatum</i>)	disturbance	3.0
	green needle grass (<i>Stipa viridula</i>)	native	0.5
	Indian rice grass (<i>Oryzopsis hymenoides</i>)	native	0.5
	Japanese chess (<i>Bromus japonicus</i>)	disturbance	10.0
	Kentucky bluegrass (<i>Poa pratensis</i>)	disturbance	3.0
	quack grass (<i>Agropyron repens</i>)	disturbance	3.0
	redtop (<i>Agrostis stolonifera</i>)	introduced	0.5
	sand grass (<i>Calamovilfa longifolia</i>)	native	0.5
	slender wheat grass (<i>Agropyron trachycaulum</i>)	native	0.5
	smooth brome (<i>Bromus inermis</i>)	disturbance	3.0
	timothy (<i>Phleum pratense</i>)	disturbance	3.0
	tufted hair grass (<i>Deschampsia cespitosa</i>)	native	0.5
	western wheat grass (<i>Agropyron smithii</i>)	native	0.5
	wheat grass (<i>Agropyron spp.</i>)	unknown	0.5
Forbs (broad leaf plants)	alfalfa (<i>Medicago sativa</i>)	introduced	0.5
	bluebur (<i>Lappula squarrosa</i>)	disturbance	0.5
	broad-leaved fireweed (<i>Epilobium latifolium</i>)	native	0.5
	Canada goldenrod (<i>Solidago canadensis</i>)	native	0.5
	Canada thistle (<i>Cirsium arvense</i>)	invasive	0.5
	common burdock (<i>Arctium minus</i>)	disturbance	0.5
	common dandelion (<i>Taraxacum officinale</i>)	disturbance	0.5
	common pepper-grass (<i>Lepidium densiflorum</i>)	introduced	0.5
	common scouring-rush (<i>Equisetum hyemale</i>)	native	0.5
	common yarrow (<i>Achillea millefolium</i>)	native	0.5
	curled dock (<i>Rumex crispus</i>)	introduced	0.5
	erigeron (<i>Erigeron spp.</i>)	unknown	0.5
	flixweed (<i>Descurainia sophia</i>)	disturbance	0.5
	gaillardia (<i>Gaillardia aristata</i>)	native	0.5
	golden aster (<i>Heterotheca villosa</i>)	native	0.5
	golden bean (<i>Thermopsis rhombifolia</i>)	native	0.5
	gumweed (<i>Grindelia squarrosa</i>)	native	0.5
	harebell (<i>Campanula rotundifolia</i>)	native	0.5
	hound's-tongue (<i>Cynoglossum officinale</i>)	invasive	0.5
	Indian hemp (<i>Apocynum cannabinum</i>)	poisonous	0.5
	locoweed (<i>Oxytropis spp.</i>)	unknown	0.5
	nodding onion (<i>Allium cernuum</i>)	native	0.5
	pasture sagewort (<i>Artemisia frigida</i>)	native	0.5
	perennial sow-thistle (<i>Sonchus arvensis</i>)	invasive	0.5
	plains wormwood (<i>Artemisia campestris</i>)	native	0.5
	prairie coneflower (<i>Ratibida columnifera</i>)	native	0.5
	prairie sagewort (<i>Artemisia ludoviciana</i>)	native	0.5
	sand-lily (<i>Mentzelia decapetala</i>)	native	0.5
	silverweed (<i>Potentilla anserina</i>)	disturbance	0.5
	star-flowered Solomon's-seal (<i>Smilacina stellata</i>)	native	0.5
	stinkweed (<i>Thlaspi arvense</i>)	disturbance	0.5
	wavy-leaved thistle (<i>Cirsium undulatum</i>)	native	0.5
	white sweet-clover (<i>Melilotus alba</i>)	disturbance	3.0
	wild bergamot (<i>Monarda fistulosa</i>)	native	0.5
	wild licorice (<i>Glycyrrhiza lepidota</i>)	native	3.0
	wild mint (<i>Mentha arvensis</i>)	native	0.5
	woolly gromwell (<i>Lithospermum ruderales</i>)	native	0.5
	yellow evening-primrose (<i>Oenothera biennis</i>)	native	0.5
	yellow sweet-clover (<i>Melilotus officinalis</i>)	disturbance	0.5

					Disturbance-Caused Undesirable Species		
						Polygon Area in Acres x % Canopy Cover	Polygon Area in Hectares x % Canopy Cover
AENV Reach	Polygon ID Number	Polygon Name	Size (acres)	Size (hect)	(% as a decimal)	Area covered (acres)	Area covered (hect)
WT-03	200410050	WAT4	11.93	4.83	0.3	3.58	1.45
	200410049	WAT5	25.85	10.46	0.9	23.27	9.41
Reach Total:			37.78	15.29		26.84	10.86
Reach Average:			18.89	7.65		13.42	5.43
WT-02	200410054	WAT3	99.1	40.1	0.4	39.64	16.04
	200410089	WAT7	9.3	3.76	0.2	1.86	0.75
Reach Total:			108.40	43.86		41.50	16.79
Reach Average:			54.20	21.93		20.75	8.40
WT-01	200410041	WAT2	27.08	10.96	0.6	16.25	6.58
	200410088	WAT6	90.67	36.69	0.7	63.47	25.68
Reach Total:			117.75	47.65		79.72	32.26
Reach Average:			58.88	23.83		39.86	16.13
Overall total			263.9	106.8		148.1	59.9
Overall avg			44.0	17.8		24.7	10.0
Overall %						56.1%	56.1%

Total # polygons = 6						Canada Thistle				Common Hound's tongue			
AENV	ID No.	Polygon Name	Polygon Size	Hectares	Are noxious weeds present?	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares
WT-03	200410050 WAT4	200410049 WAT5	11.93	4.83	Yes	0.005	6	0.060	0.024	0.005	5	0.060	0.024
			25.85	10.46	Yes	0.005	4	0.129	0.052	0.005	10	0.129	0.052
			37.78	15.29			0.19	0.08			0.19	0.08	
			Reach Total:			18.89	7.65			0.09	0.04		
WT-02	200410054 WAT3	200410089 WAT7	99.1	40.1	Yes	0.005	6	0.496	0.201	0.005	5	0.496	0.201
			9.3	3.76	Yes	0.005	8	0.047	0.019	0.005	8	0.047	0.019
			108.40	43.86			0.54	0.22			0.54	0.22	
			Reach Average:			54.20	21.93			0.27	0.11		
WT-01	200410041 WAT2	200410088 WAT6	27.08	10.96	Yes	0.005	6	0.135	0.055	0.005	2	0.135	0.055
			90.67	36.69	Yes	0.03	10	2.720	1.101	0.005	5	0.453	0.183
			117.75	47.65			2.86	1.16			0.59	0.24	
			Reach Total:			58.88	23.83			1.43	0.58		
Reach Average:													
Total Area Percent of total area			263.93	106.80				3.59	1.45			1.32	0.53
								1.4%	1.4%			0.5%	0.5%

*Constancy is the number of times the species was observed in the Waterton River Project area

AENV	ID No.	Polygon Name	Total # polygons = 6		Are noxious weeds present?	Ox-eye Daisy				Perennial Sow-thistle				Tail Buttercup				White Cockle			
			Acres	Hectares		Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres	Constancy* = Canopy Cover % as a decimal	Density Distribution	Area Occupied Hectares	Acres
WT-03	200410050	WAT14	11.93	4.83	Yes	0.005	5	0.060	0.024	2	0.060	0.024	0.005	6	0.060	0.024	0.005	2	0.060	0.024	
	200410049	WAT15	25.85	10.46	Yes	0.005	4	0.129	0.052	0	0.000	0.000	0.005	4	0.129	0.052	0.005	0.000	0.000		
	Reach Total:		37.78	15.29				0.19	0.08		0.06	0.02			0.19	0.08		0.06	0.02		
	Reach Average:		18.89	7.65				0.09	0.04		0.03	0.01			0.09	0.04		0.03	0.01		
WT-02	200410054	WAT13	99.1	40.1	Yes	0.005	7	0.496	0.201	5	0.496	0.201	0.005	8	0.496	0.201	0.005	0.000	0.000		
	200410089	WAT17	9.3	3.76	Yes	0	0.000	0.000	0.000	7	0.047	0.019	0.005	0	0.000	0.000	0	0.000	0.000		
	Reach Total:		108.40	43.86				0.50	0.20		0.54	0.22			0.50	0.20		0.00	0.00		
	Reach Average:		54.20	21.93				0.25	0.10		0.27	0.11			0.25	0.10		0.00	0.00		
WT-01	200410041	WAT2	27.08	10.96	Yes	0	0.000	0.000	0.000	6	0.135	0.055	0.005	2	0.135	0.055	0.005	0.000	0.000		
	200410088	WAT6	90.67	36.69	Yes	0.005	3	0.453	0.183	6	0.453	0.183	0.005	0	0.000	0.000	0	0.000	0.000		
	Reach Total:		117.75	47.65				0.45	0.18		0.59	0.24			0.14	0.05		0.00	0.00		
	Reach Average:		58.88	23.83				0.23	0.09		0.29	0.12			0.07	0.03		0.00	0.00		
Total Area Percent of total area			263.93	106.80			1.14	0.46	0.4%		1.19	0.48			0.82	0.33		0.06	0.02		
							0.4%	0.4%		0.5%	0.5%			0.3%	0.3%			0.02%	0.02%		

*Constancy is the number of times the species was observed in the Waterton River Project area

AENV	ID No.	Polygon Name	Total # polygons = 6		Are noxious weeds present?	Downy Chess				Total (All Weeds)			
			Acres	Hectares		Constancy* Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares	Canopy Cover % as a decimal	Density Distribution	Area Occupied Acres	Hectares
WT-03	200410050	WAT4	11.93	4.83	Yes	0.005	6	0.060	0.024	0.005	6	0.060	0.024
	200410049	WAT5	25.85	10.46	Yes			0.000	0.000	0.005	10	0.129	0.052
		Reach Total:	37.78	15.29				0.06	0.02			0.19	0.08
		Reach Average:	18.89	7.65				0.03	0.01			0.09	0.04
WT-02	200410054	WAT3	99.1	40.1	Yes	0.005	7	0.496	0.201	0.005	8	0.496	0.201
	200410089	WAT7	9.3	3.76	Yes	0.005	8	0.047	0.019	0.005	8	0.047	0.019
		Reach Total:	108.40	43.86				0.54	0.22			0.54	0.22
		Reach Average:	54.20	21.93				0.27	0.11			0.27	0.11
WT-01	200410041	WAT2	27.08	10.96	Yes			0.000	0.000	0.005	6	0.135	0.055
	200410088	WAT6	90.67	36.69	Yes	0.005	4	0.453	0.183	0.03	10	2.720	1.101
		Reach Total:	117.75	47.65				0.45	0.18			2.86	1.16
		Reach Average:	58.88	23.83				0.23	0.09			1.43	0.58
Total Area Percent of total area			263.93	106.80				1.06	0.43			3.59	1.45
								0.4%	0.4%			1.4%	1.4%

*Constancy is the number of times the species was observed in the Waterton River Project area

AENV Reach	ID No.	Polygon No.	Polygon Size (acres)	Classification Type Name	Percent of Polygon (%)	Area of Type		Successional Stage or Comments
						(acres)	(hectares)	
WT-03	2E+08 WAT4		11.93	4.83 POPUBAL/Herbaceous CT	0.975	11.63	4.71	Mainly on the meander lobe. Sleep banks at the lower and upper end of the site are mainly grasses and some disturbance species. ELAECOM AND AMELALN are present in substantial amounts. So is ROSAWOOD. No CORNSTO was found very minimal willow.
	2E+08 WAT5		25.85	10.46 POPUANG/SYMPOCC CT	0.975	25.20	10.20	
WT-02	2E+08 WAT2		27.08	10.96 POPUANG/SYMPOCC CT	0.8	21.66	8.77	PRUNVIR, AMELALN abundant lots of dead BETUOCC 2.19 SALIEXI mixed in, some POPUBAL CORNSTO was present, but was not found in sufficient amounts to warrant a classification CORNSTO on POPUANG/CORNSTO 3.67 along bank, mostly sapling
	2E+08 WAT2		27.08	10.96 POPUANG/RAB CT	0.2	5.42	2.19	
	2E+08 WAT6		90.67	36.69 POPUANG/SYMPOCC CT	0.9	81.60	33.02	
	2E+08 WAT6		90.67	36.69 POPUANG/RAB CT	0.1	9.07	3.67	
WT-01	2E+08 WAT3		99.1	40.1 POPUANG/SYMPOCC CT	0.975	96.62	39.10	Mostly seedling/sapling and mature age classes in this community. There are a variety of shrubs in the understory as well as disturbance grasses. All age classes present with shrubs in teh understory. Cobbles are abundant in the understory 3.67 as well. Regeneration is occurring mostly along the river bank.
	2E+08 WAT7		9.3	3.76 POPUANG/SYMPOCC CT	0.975	9.07	3.67	

Seven Letter Code

POPUANG/RAB CT

POPUANG/SYMPOCC CT

POPUBAL/HERB CT

Habitat or Community Type Name*Populus angustifolia*/Recent Alluvial Bar Community Type*Populus angustifolia*/*Symphoricarpos occidentalis* Community Type*Populus balsamifera*/Herbaceous Community Type

Logging, Railroads, Roads, Vegetation Removal, Mining, and Recreation are factors NOT contributing to structurally altered banks by human causes in Waterton River SSRB project area.

Length of stream inventoried x %
Of the length of stream with human caused alterations, how much is due to:

IS due to:												
inverted x %												
6												
Total # of Polygons =												
AENV Reach	ID No.	Polygon Number	Length of stream inventoried		Is stream bank altered by on-site human activities?	Percent of bank length with human caused alterations	Stream length inventoried with human caused alterations	Grazing	Stream length km or miles with human-caused bank alterations x %alterations associated with grazing			
			(km)	(miles)	(Yes/No/ NA)	(percent as a decimal)	(km)	(miles)	(percent as a decimal)	(km)	(miles)	
WT-03	200410050	WAT4	0.97	0.6	Yes	0.03	0.029	0.018	0.975	0.028	0.018	
	200410049	WAT5	0.8	0.5	Yes	0.005	0.004	0.003	0.975	0.004	0.002	
					Reach Total:		0.033	0.021		0.032	0.020	
				Reach Average:			0.017	0.010		0.016	0.010	
WT-02	200410054	WAT3	1.43	0.89	Yes	0.005	0.007	0.004	0.975	0.007	0.004	
	200410089	WAT7	0.63	0.39	Yes	0.005	0.003	0.002	0.975	0.003	0.002	
					Reach Total:		0.010	0.006		0.010	0.006	
				Reach Average:			0.005	0.003		0.005	0.003	
WT-01	200410041	WAT2	1.37	0.85	No	0	0.000	0.000	0	0.000	0.000	
	200410088	WAT6	1.22	0.76	No	0	0.000	0.000	0	0.000	0.000	
					Reach Total:		0.000	0.000		0.000	0.000	
				Reach Average:			0.000	0.000		0.000	0.000	

Of exposed soil surface within polygon, how much is due to:

Human-caused processes:																		
Natural Processes					Human-caused processes:													
		area of exposed soil x % due to natural processes		area of exposed soil x % due to human-caused processes														
Percent due to natural processes		Area due to natural processes		Area due to human caused disturbance		Percent due to human caused disturbance		Area due to human caused disturbance										
% as a decimal		acres		hectares		% as a decimal		acres										
		hectares		acres				hectares										
WT-03	200410050	WAT4	11.93	4.83	Yes	0.03	0.358	0.145	0.8	0.29	0.12	0.072	0.029					
	200410049	WAT5	25.85	10.46	Yes	0.03	0.776	0.314	0.975	0.76	0.31	0.004	0.002					
	Reach Total:		37.78	15.29			1.13	0.46	1.04	0.42	0.08	0.03	0.03					
	Reach Average:		18.89	7.65			0.57	0.23	0.52	0.21	0.04	0.02	0.02					
WT-02	200410054	WAT3	99.1	40.1	Yes	0.1	9.910	4.010	0.975	9.66	3.91	0.03	0.297					
	200410089	WAT7	9.3	3.76	Yes	0.2	1.860	0.752	0.9	1.67	0.68	0.1	0.186					
	Reach Total:		37.78	15.29			1.13	0.46	11.34	4.59	0.48	0.20	0.075					
	Reach Average:		18.89	7.65			0.57	0.23	5.67	2.29	0.24	0.10	0.10					
WT-01	200410041	WAT2	27.08	10.96	Yes	0.1	2.708	1.096	0.975	2.64	1.07	0.005	0.014					
	200410088	WAT6	90.67	36.69	Yes	0.005	0.453	0.183	0.975	0.44	0.18	0.005	0.002					
	Reach Total:		108.40	43.86			11.77	4.76	3.08	1.25	0.02	0.01	0.001					
	Reach Average:		54.20	21.93			5.89	2.38	1.54	0.62	0.01	0.00	0.00					
sum area all polys					Totals		16.06		6.50		15.46		6.26		0.57		0.23	
sum area all polys / number polys					Average		2.68		1.08		2.58		1.04		0.10		0.04	
					Percentage		6.1%		6.1%		96.2%		96.2%		3.6%		3.6%	
							total area expose / total area				total area natural cause / total area expose				total area human cause / total area expose			

Of natural processes, how much is due to:

Of natural processes, how much is due to:														
		area exposed from natural processes x % due to erosion		Area		Depositional	area exposed from natural processes x % due to deposition		Wildlife Use	area exposed from natural processes x % due to wildlife		area exposed from natural processes x % due to vegetated channel bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area						Area		Within Vegetated Channel Bottom		
				Area										

Of human-caused processes, how much is due to:																	
			area exposed from human-caused disturbance % due to grazing			area exposed from human-caused disturbance % due to recreation			area exposed from human-caused disturbance % due to recreation			area exposed from human-caused disturbance % due to other causes					
Grazing			Area			Recreation			Area			Other			Area		
			acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	% as a decimal	acres	hectares	
WT-03	AENV Reach																
WT-02	AENV Reach																
WT-01	AENV Reach																
sum area all polys			263.93			106.80											
Average			43.99			17.80											
polys / number polys																	

AENV Reach	I.D. Number	Polygon Name	Area		Breakdown of the polygon into % of the area in these land uses:									
			acres	hectares	No Land use	Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging	
Total Polygons= 6			Sum of Polygons=		0	0	6	2	0	0	0	0	1	0
			Constancy=		0.0%	0.0%	100.0%	33.3%	0.0%	0.0%	0.0%	0.0%	16.7%	0.0%
WT-03	200410050	WAT4	11.93	4.83	97.5									
	200410049	WAT5	25.85	10.46	97.5									
WT-02	200410054	WAT3	99.1	40.1	97.5									
	200410089	WAT7	9.3	3.76	97.5									
WT-01	200410041	WAT2	27.08	10.96	97.5									
	200410088	WAT6	90.67	36.69	97.5									

AENV Reach	I.D. Number	Polygon Name	Area		Breakdown of the area ADJACENT to the polygon into % of these land uses:									
			acres	hectares	No Land use	Tame	Native	Recreation	Development	Tilled Crop	Perennial forage	Roads	Logging	
Total Polygons= 6			Sum of Polygons=		0	0	6	1	2	0	0	4	0	
			Constancy=		0.0%	0.0%	100.0%	16.7%	33.3%	0.0%	0.0%	66.7%	0.0%	
WT-03	200410050	WAT4	11.93	4.83	80									
	200410049	WAT5	25.85	10.46	97.5									
WT-02	200410054	WAT3	99.1	40.1	97.5									
	200410089	WAT7	9.3	3.76	97.5									
WT-01	200410041	WAT2	27.08	10.96	90									
	200410088	WAT6	90.67	36.69	90									

AENV Reach	I.D. Number	Polygon Name	Total Polygons= 6				Other Comments
			Mining	Railroads	Other		
			0	0	0		
			0.0%	0.0%	0.0%		
WT-03							
			200410050 WAT4				
			200410049 WAT5				
WT-02							
			200410054 WAT3				
			200410089 WAT7				
WT-01							
			200410041 WAT2				
			200410088 WAT6				
AENV Reach	I.D. Number	Polygon Name	Total Polygons= 6				Other Comments
			Mining	Railroads	Other		
			0	0	1		
			0.0%	0.0%	16.7%		
WT-03							
			200410050 WAT4				
			200410049 WAT5				
WT-02							
			200410054 WAT3				
			200410089 WAT7				
WT-01							
			200410041 WAT2				
			200410088 WAT6				
			0.5 Orchard				

AENV Reach	Polygon ID Number	Polygon Name	Date Inventoried	System Name	System Type	Dominant Channel Bottom
WT-03	200410050	WAT4	7/13/04	Waterton River	River	Large cobble
	200410049	WAT5	7/13/04	Waterton River	River	
WT-02	200410054	WAT3	7/13/04	Waterton River	River	Large cobble
	200410089	WAT7	7/19/04	Waterton River	River	Small cobble
WT-01	200410041	WAT2	7/8/04	Waterton River	River	Large cobble
	200410088	WAT6	7/19/04	Waterton River	River	Small cobble

AENV Reach	Polygon ID Number	Polygon Name	Unstable Banks	Deep Binding Rootmass	Downcutting	Headcuts	Polygon Bare Ground	Structurally Altered Banks	Pugging and Hummocking	Channel Incisement	Lateral Cutting
WT-03	200410050	WAT4	6-25%	36-65%	0.00%	0	3.00%	3.00%	0.50%	A	10.00%
	200410049	WAT5	6-25%	66-85%	0.00%	0	3.00%	0.50%	0.00%	A	20.00%
WT-02	200410054	WAT3	0-5%	36-65%	0.00%	0	10.00%	0.50%	0.50%	A	0.50%
	200410089	WAT7	6-25%	36-65%	0.00%	0	20.00%	0.50%	3.00%	A	3.00%
WT-01	200410041	WAT2	6-25%	66-85%	0.00%	0	10.00%	0.00%	0.00%	A	20.00%
	200410088	WAT6	6-25%	over 85%	0.00%	0	0.50%	0.00%	0.50%	A	0.50%
Overall Site Summary:			11.80%	66.00%	0.00%	0	6.10%	0.70%	0.50%	A	8.80%

AENV Reach	Polygon ID Number	Polygon Name	Acres	Hectares	River Miles	River Kilometers	Average Acres/River Kilometer	Average Riparian Zone Width	Minimum Riparian Zone Width	Maximum Riparian Zone Width
WT-03	200410050	WAT4	11.93	4.83	0.6	0.97	12.3	50	3	70
	200410049	WAT5	25.85	10.46	0.5	0.8	32.31	130	100	145
WT-02	200410054	WAT3	99.1	40.1	0.89	1.43	69.3	280	10	300
	200410089	WAT7	9.3	3.76	0.39	0.63	14.76	60	1	90
WT-01	200410041	WAT2	27.08	10.96	0.85	1.37	19.77	80.1	12	130
	200410088	WAT6	90.67	36.69	0.76	1.22	74.32	300	210	360

ID No.	Polygon Number	Length of streambank/polygon inventoried (km)	Are bank materials present (Yes/No/ NA)	>20 inches (med boulders)	10-20 inches (small boulders)	5-10 inches (Large cobbles)	2.5-5 inches (small cobbles)	0.6-2.5 inches (coarse gravel)	0.08-0.6 inches (fine gravel)	0.062-2mm (sand)	<0.062mm (Silt and clay)
200410041	WAT2	1.37	0.85 Yes	0.5	0.5	0.5	20	10	10	20	40
200410050	WAT4	0.97	0.6 Yes	0.5	20	20	30	10	3	3	20
200410054	WAT3	1.43	0.89 Yes	10	10	20	20	10	10	10	10
200410049	WAT5	0.8	0.5 Yes	0	0.5	0.5	10	20	20	20	30
200410088	WAT6	1.22	0.76 Yes	3	3	10	30	3	3	10	50
200410089	WAT7	0.63	0.39 Yes	20	0.5	10	10	0.5	0.5	20	40
Sum		6.42	3.99	5.67	5.75	10.17	20.00	8.92	7.75	13.83	31.67
Average											

